

# TECHNICAL REPORT ON GEOTECHNICAL INVESTIGATION

Name of Project/Location

NEW DOUBLE LINE BETWEEN VADHAVAN PORT AND NEW  
PALGHAR STATION (22.23 KM) ROR.

**MAJOR BRIDGE FROM CH-9642.700 (A1) to 13278.980 (A2)**

**Name of Consultant**

SATRA Services and Solutions  
Private Limited

**Name of Client**

WESTERN RAILWAY

*Submitted By*



**VISHWAS GEOTECH PVT. LTD.**

TECHNICAL CONSULTANCY & CIVIL ENGINEERING LABORATORY

**ISO/IEC 17025:2017 ACCREDITED**

**Regd. Office**

C-2, Vardhmannagar,  
Nr. Arjun Tower, Ghatlodia,  
Ahmedabad - 380061

**Work Office**

A-14, CP Nagar Part-2  
Opp. Arjun Tower, Ghatlodia,  
Ahmedabad - 380061

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E-mail: [vishwasgeotech@gmail.com](mailto:vishwasgeotech@gmail.com) | Web: [www.vishwasgeotech.com](http://www.vishwasgeotech.com) | Ph: +91 9925965217







## INDEX

Sr. No.	Contents	Page No.
1	Introduction	2
2	Planning of Geotechnical Investigation	3
3	Geological Information	7
4	Methodology	11
5	Laboratory Investigation	18
6	Results	19
7	Soil Stratification	20
8	Summary	64
9	Conclusion & Recommendation	121
10	Annexure	122
a.	Tables	123
b.	File Capacity Calculations	577





**PROJECT: - CONDUCTING GEOTECHNICAL INVESTIGATION FOR THE FINAL LOCATION SURVEY OF NEW BG DOUBLE LINE BETWEEN VADHAVANPORT AND NEW PALGARH DFCC STATION (22.23 KMS)**

**1.1 Introduction**

SATRA Services and Solutions Pvt. Ltd. has been appointed as the Contractor for the project involving geotechnical investigation for rectification of various locations in the State of Gujarat. It was decided to conduct a detailed geotechnical investigation to interpret the engineering properties of the subsurface strata for the purpose of designing foundations of structures.

M/s SATRA Services and Solutions Pvt. Ltd., Hyderabad, assigned the work of detailed geotechnical investigation, including drilling of boreholes and collection of disturbed and undisturbed soil samples, to M/s Vishwas Geotech Pvt. Ltd., an NABL-accredited laboratory (ISO/IEC 17025:2017 Accredited), for the "Final Location Survey (FLS) for the work: New BG Double Line between VadHAVAN Port and New Palgarh DFCC Station." The objective of this investigation was to evaluate the engineering properties of the subsurface strata for the design of substructures.

M/s Vishwas Geotech Pvt. Ltd. carried out the field investigations, including borehole drilling and sample collection, during 2024. Laboratory tests were conducted on selected soil and rock samples to determine the design parameters in accordance with relevant IS, MORT&H, IRC, and IR specifications and guidelines issued by the Design Consultant from time to time. This report presents the details of the investigations carried out and includes comprehensive field and laboratory test data, analysis and interpretation of results by a geotechnical expert, along with precise assessments and recommendations of soil properties essential for foundation design.

For foundation analysis of the structure on the site, it is necessary

- To determine soil profile of the site.
- To know physical properties and strength characteristics of soil at various depths.
- To determine the Safe Bearing Capacity of the soil at different depths for the different width of footings for the test point.
- To locate the presence of ground water level.
- To give conclusion and recommendation.

**1.2 Scope of This Report**

This report contains the following information;

- Introduction
- Planning of geotechnical investigation program including scope of work
- Geological information of the Region
- Methodology of investigation
- Subsurface Conditions / Geotechnical Assessment
- Foundation support







## 2.1 Planning of Geotechnical Investigation Programmed

On the basis of nature of the project, it was decided to carry out soil exploration in order to:

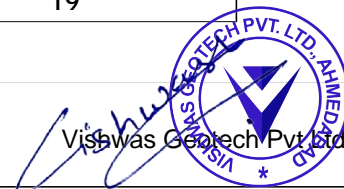
- I. Obtain soil sample, both representative and undisturbed (wherever necessary) for classification tests and others laboratory tests for determining engineering properties;
- II. Obtain soundings of penetration resistance by standard Penetration test in the boreholes;
- III. Drilling in rock, obtain rock cores of Nx size by diamond core drilling method using double tube core barrels, determination of material characteristics (Strength/ Structure/ Color/ Texture/ Grain Size/Rock name), mass characteristics (State of weathering/ existing natural discontinuities), laboratory tests for determining engineering properties of existing rock, i.e., unconfined compressive strength, water absorption, unit weight etc.

## 2.2 Scope of Work

To Investigation the subsurface conditions boreholes were planned at every structure location. Disturbed and undisturbed sample were to be collected from all boreholes to assess the soil/ rock characteristics in laboratory.

The Summary of the Field work is given below:

Bore Hole No.	Location	Depth of Investigation (m)
Bore hole – A1	Chainage-9642.700	19
Bore hole – P1	Chainage-9675.300	19
Bore hole – P2	Chainage-9707.900	19
Bore hole – P3	Chainage-9740.500	19
Bore hole – P4	Chainage-9773.100	19
Bore hole – P5	Chainage-9805.700	19
Bore hole – P6	Chainage-9838.300	19
Bore hole – P7	Chainage-9870.900	19
Bore hole – P8	Chainage-9903.500	19
Bore hole – P9	Chainage-9936.100	19
Bore hole – P10	Chainage-9968.700	19
Bore hole – P11	Chainage-10001.300	19
Bore hole – P12	Chainage-10033.900	19
Bore hole – P13	Chainage-10066.500	19
Bore hole – P14	Chainage-10066.500	19
Bore hole – P15	Chainage-10131.700	19
Bore hole – P16	Chainage-10164.300	19
Bore hole – P17	Chainage-10196.900	19
Bore hole – P18	Chainage-10229.500	19
Bore hole – P19	Chainage-10262.100	19
Bore hole – P20	Chainage-10294.700	19
Bore hole – P21	Chainage-10327.300	19
Bore hole – P22	Chainage-10359.900	19
Bore hole – P23	Chainage-10392.500	19
Bore hole – P24	Chainage-10425.100	19
Bore hole – P25	Chainage-10457.700	19







Bore hole – P26	Chainage-10490.300	19
Bore hole – P27	Chainage-10522.900	19
Bore hole – P28	Chainage-10555.500	19
Bore hole – P29	Chainage-10588.100	19
Bore hole – P30	Chainage-10620.700	19
Bore hole – P31	Chainage-10653.300	19
Bore hole – P32	Chainage-10685.900	19
Bore hole – P33	Chainage-10718.500	19
Bore hole – P34	Chainage-10751.100	19
Bore hole – P35	Chainage-10783.700	19
Bore hole – P36	Chainage-10816.300	19
Bore hole – P37	Chainage-10848.900	19
Bore hole – P38	Chainage-10881.500	19
Bore hole – P39	Chainage-10914.100	19
Bore hole – P40	Chainage-10946.700	19
Bore hole – P41	Chainage-10979.300	19
Bore hole – P42	Chainage-11011.900	19
Bore hole – P43	Chainage-11044.500	19
Bore hole – P44	Chainage-11077.100	19
Bore hole – P45	Chainage-11109.700	19
Bore hole – P46	Chainage-11142.300	19
Bore hole – P47	Chainage-11174.900	19
Bore hole – P48	Chainage-11207.500	19
Bore hole – P49	Chainage-11240.274	26
Bore hole – P50	Chainage-11261.004	25
Bore hole – P51	Chainage-11293.604	26
Bore hole – P52	Chainage-11404.004	24
Bore hole – P53	Chainage-11436.604	25
Bore hole – P54	Chainage-11468.100	24
Bore hole – P55	Chainage-11485.980	20
Bore hole – P56	Chainage-11518.580	20
Bore hole – P57	Chainage-11551.180	20
Bore hole – P58	Chainage-11583.780	20
Bore hole – P59	Chainage-11616.380	20
Bore hole – P60	Chainage-11648.980	20
Bore hole – P61	Chainage-11681.580	20
Bore hole – P62	Chainage-11714.180	20
Bore hole – P63	Chainage-11746.780	20
Bore hole – P64	Chainage-11779.380	20
Bore hole – P65	Chainage-11811.980	20
Bore hole – P66	Chainage-11844.580	20
Bore hole – P67	Chainage-11877.180	20
Bore hole – P68	Chainage-11909.780	20
Bore hole – P69	Chainage-11942.380	20
Bore hole – P70	Chainage-11974.980	20
Bore hole – P71	Chainage-12007.580	20
Bore hole – P72	Chainage-12040.180	20







Bore hole – P73	Chainage-12072.780	20
Bore hole – P74	Chainage-12105.380	20
Bore hole – P75	Chainage-12137.980	20
Bore hole – P76	Chainage-12170.580	20
Bore hole – P77	Chainage-12203.180	20
Bore hole – P78	Chainage-12235.780	20
Bore hole – P79	Chainage-12268.380	20
Bore hole – P80	Chainage-12300.980	20
Bore hole – P81	Chainage-12333.580	20
Bore hole – P82	Chainage-12366.180	20
Bore hole – P83	Chainage-12398.780	20
Bore hole – P84	Chainage-12431.380	20
Bore hole – P85	Chainage-12463.980	20
Bore hole – P86	Chainage-12496.580	20
Bore hole – P87	Chainage-12529.180	20
Bore hole – P88	Chainage-12561.780	20
Bore hole – P89	Chainage-12594.380	20
Bore hole – P90	Chainage-12626.980	20
Bore hole – P91	Chainage-12659.580	20
Bore hole – P92	Chainage-12692.180	20
Bore hole – P93	Chainage-12724.780	20
Bore hole – P94	Chainage-12757.380	20
Bore hole – P95	Chainage-12789.980	20
Bore hole – P96	Chainage-12822.580	20
Bore hole – P97	Chainage-12855.180	20
Bore hole – P98	Chainage-12887.780	20
Bore hole – P99	Chainage-12920.380	20
Bore hole – P100	Chainage-12952.980	20
Bore hole – P101	Chainage-12985.580	20
Bore hole – P102	Chainage-13018.180	20
Bore hole – P103	Chainage-13050.780	20
Bore hole – P104	Chainage-13083.380	20
Bore hole – P105	Chainage-13115.980	20
Bore hole – P106	Chainage-13148.580	20
Bore hole – P107	Chainage-13181.180	20
Bore hole – P108	Chainage-13213.780	20
Bore hole – P109	Chainage-13246.380	20
Bore hole – PA2	Chainage-13278.980	20

All location of borehole / Borehole termination depth /ground elevation were elevation were given and approved by design Consultant

**2.3 Conducting Standard penetration test during boring operation**

**2.4 Collecting disturbed / undisturbed soil samples and Rock core sample from the borehole.**

**2.5 Summary of Laboratory Testing Program is given below;**

Laboratory testing was planned on selected disturbed/ un-Disturbed soil Samples/ rock samples as per relevant Standards and Specification.





Sl. No	Particulars Of Properties	Ref: IS Code	Disturbed Soil Sample	Undisturbed Soil Sample	Rock Sample
1	Sieve Analysis/ Hydrometer	IS: 2720 (P-IV)	<input checked="" type="checkbox"/>		
2	Natural Moisture Content /Bulk /Dry Density	IS: 2720 (P-II)	<input checked="" type="checkbox"/>		
3	Specific Gravity	IS: 2720 (P-III)	<input checked="" type="checkbox"/>		
4	Liquid Limit /Plastic Limit/ Plasticity Index	IS: 2720 (P-V)	<input checked="" type="checkbox"/>		
5	Direct Shear Test (for non-cohesive soil/mixed soils)	IS: 2720 (P-XIII)	<input checked="" type="checkbox"/>		
6	Triaxial Test Consolidated Undrained Test (for cohesive soil)	IS: 2720 (P-XII)	<input checked="" type="checkbox"/>		
7	Chemical Analysis on soil sample	IS: 2720 (P-XXVI & XXVII)	<input checked="" type="checkbox"/>		
8	Chemical Analysis on water sample	IS: 3025 & IS: 5401	<input checked="" type="checkbox"/>		
9	Unconfined Compressive Strength/Point Load Strength	IS: 9143 & IS:8764			<input checked="" type="checkbox"/>
10	Specific Gravity, Water Absorption, Porosity of Rock	IS: 1122 & IS: 1124			<input checked="" type="checkbox"/>

All field work, field tests, collection of sample and laboratory tests were carried out as per relevant IS/MORT&H/IRC/IR specifications approved methodology.







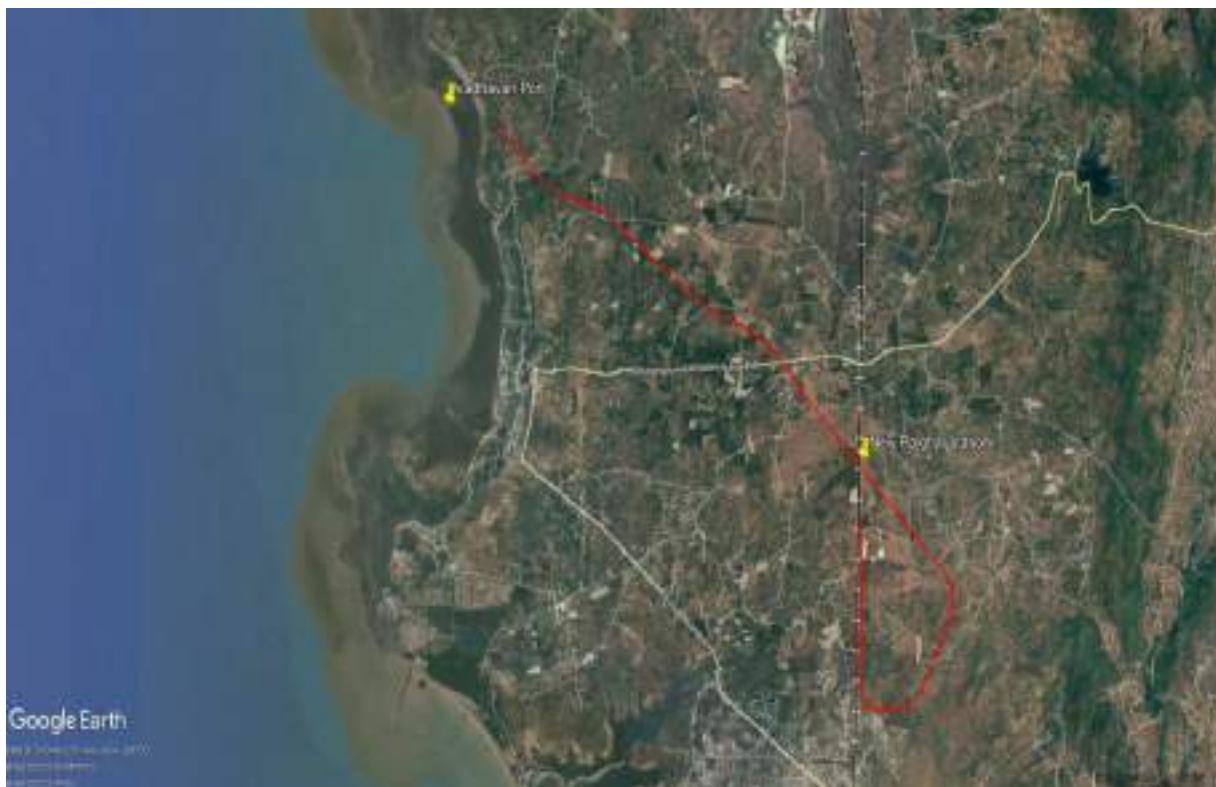
### 3.1 Geological Information of the region

#### Location

**PALGARH DISTRICT:** Palgarh District has an area of approximately 5,344 square kilometres. As per the Census of 2011, the total population of Palghar District is about 2,990,116 persons. The district was carved out of the erstwhile Thane District in 2014. It is bounded by the Arabian Sea to the west, Gujarat State and the Union Territory of Dadra & Nagar Haveli and Daman & Diu to the north, Nashik District to the east, and Thane District to the south.

The district is divided into eight tehsils (talukas), namely Palghar, Vasai, Dahanu, Talasari, Jawhar, Mokhada, Vikramgad, and Wada. It comprises more than 1,000 villages along with several towns, including Vasai-Virar Municipal Corporation area, which is one of the major urban centers in the district.

Geographically, the district lies approximately between latitude 19°16' North and 20°20' North and longitude 72°40' East and 73°40' East. The region features a mix of coastal plains along the Arabian Sea and hilly terrain towards the eastern part, forming part of the northern Western Ghats. The district falls within the Survey of India topographical map series covering this latitude-longitude grid of Maharashtra.



#### Climatic Conditions:

**PALGHAR DISTRICT:** - Palghar District experiences a tropical monsoon climate (Köppen climate classification Am), characterized by high humidity and significant seasonal rainfall due to its coastal location along the Arabian Sea. Three distinct seasons are observed: summer, monsoon, and winter. Summers begin in March and continue until early June. During this period, temperatures range





between 30°C and 39°C (86°F to 102°F), with high humidity levels, especially in coastal areas such as Vasai and Dahanu.

The monsoon season commences in mid-June and lasts until September, bringing heavy to very heavy rainfall under the influence of the southwest monsoon. The district receives substantial rainfall, averaging about 2,000 to 2,500 mm (79 to 98 inches) annually, with the majority occurring between June and September. The eastern hilly regions, including Jawhar and Mokhada (part of the northern Western Ghats), receive comparatively higher rainfall than the coastal plains.

Winter starts in November and continues until February. Winters are mild, pleasant, and comparatively dry. Temperatures generally range from 12°C to 28°C (54°F to 82°F), although temperatures in interior and hilly areas may occasionally fall below 10°C (50°F) during colder nights. Overall, Palghar District experiences a warm, humid climate with a pronounced monsoon season and moderate temperature variation throughout the year.

#### Hydro Geology:

**PALGARH DISTRICT:** The occurrence and movement of groundwater in Palghar District are largely controlled by the geological framework of the area, particularly the nature of rock formations, their primary and secondary porosity, permeability, degree of weathering, and structural features such as joints and fractures. The district is predominantly underlain by Deccan Trap Basaltic formations of Upper Cretaceous to Lower Eocene age, which form the principal aquifers in the region. In these hard rock terrains, groundwater occurrence and movement mainly depend upon the extent of weathering, fracturing, vesicularity, and joint connectivity within the basalt flows.

Based on geological characteristics, geomorphology, and groundwater potential, the district can broadly be divided into two hydrogeological units:

- Consolidated or Fissured Formations – Deccan Trap Basalts
- Unconsolidated or Porous Formations – Alluvium, coastal alluvium, and lateritic deposits

In the major part of the district, hard rock basalt forms the principal aquifer system. Groundwater is generally confined to the weathered mantle, vesicular zones, fractured horizons, and inter-flow zones of the basaltic lava flows. The yield of wells depends on the thickness of the weathered zone and the intensity of fracturing.

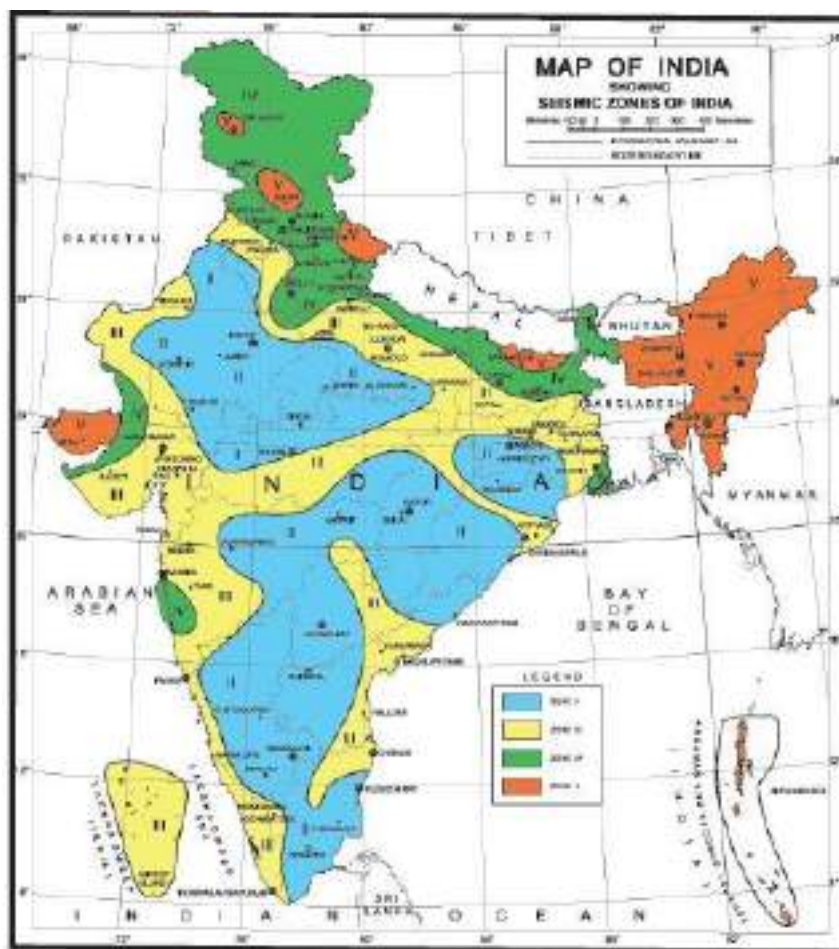
Along the coastal belt (Vasai, Dahanu, Palghar) and river valleys, unconsolidated formations such as alluvium and coastal sandy deposits form productive aquifers with relatively higher groundwater potential. Lateritic formations occur in patches, especially in elevated and plateau regions, and also act as secondary aquifers where sufficiently thick and saturated. Overall, groundwater potential in Palghar District varies from moderate to good in alluvial tracts and weathered/fractured basalt zones, while it is comparatively limited in massive compact basalt areas.

### 3.2 Seismicity

The seismic hazard map of India was updated in 2000 by the Bureau of Indian Standards (BIS). Map showing seismic zones of India is shown in Fig. 2.







Source: IS: 1893 (Part -1): 2016 – Criterion for Earthquake resistant design of Structures.

In seismic design the project site and its surrounding falls in Zone-II and Zone factor, Z Of 0.10 is recommended. Seismic zone factor for different seismic zone is given in Table 3 below;

Seismic Zone	II	III	IV	V
Seismic Intensity	LOW	MODERATE	SEVERE	VERY SEVERE
Z	0.10	0.16	0.24	0.36

The area falls under Zone- II as classified by Bureau of Indian Standards, indicating Low intensity earthquake zone.

### Liquefaction

Liquefaction is a state in saturated cohesionless soil wherein the effective shear strength is Reduced to Negligible value for all engineering purpose due to pore pressure caused by Vibrations during an earthquake when they approach the total confining Pressure in this condition the soil tends to behave like a fluid mass.

Typically, cyclic loading of saturated soils leads to the buildup of excess pore-water pressure as a result of soil particles being rearranged with a tendency toward denser packing. Under undrained





conditions (such as during earthquake shaking), loads are transferred from the soil skeleton to the pore-water with consequent reduction in the soils' shear strength.

Liquefaction-induced ground settlement and lateral spreading have been the primary cause for extensive damage to aboveground structures, foundations and pipelines during many Earthquakes.

### Cyclic Stress Ratio (CSR)

The equivalent average of shear stress  $T_{av}$  likely to be induced in the foundation material due to an earthquake is calculated by using the equation

$$T_{av} = 0.65 * \gamma * h * (a_{max}/g) * r_d$$

$T_{av}$  = equivalent average of shear stress likely to be induced by DBE

$\gamma$  = Unit weight of foundation material depth at which cyclic shear stress is calculated  $A_{max}$  = maximum surface acceleration

$R_d$  = Stress reduction factor

$$\begin{aligned} &= 1.0 - 0.00765 * h && \text{if } h < 9.15 \text{ m} \\ &= 1.174 - 0.0267 * h && \text{if } h = 9.15 \text{ m to } 23 \text{ m} \\ &= 0.744 - 0.008 * h && \text{if } h = 23.0 \text{ m to } 30.0 \text{ m} \\ &= 0.50 && \text{if } h > 30.0 \text{ m} \end{aligned}$$

If the equivalent average of shear stress  $\tau$  is normalized with the initial effective Overburden pressure ( $\sigma_0$ ), the term is called seismic demand of soil layer or cyclic Stress ratio (CSR).

$$CSR = 0.65 * (\sigma_0 / \sigma_0) * (a_{max}/g) * r_d$$

### Cyclic Resistance Ratio (CRR)

It expresses capacity of soil to resist liquefaction. CRR is determined using correlation between corrected blow count  $(N_1)_{60}$  and CRR for earthquake of magnitude 7.5.  $(N_1)_{60}$  is the SPT blow count corrected to an effective overburden pressure of 100 kPa and to Hammer energy efficiency of 60 %. The corrected blow count  $(N_1)_{60}$  is determined as follows.

$$(N_1)_{60} = N_m * C_N * C_E * C_B * C_R * C_s$$

Where,

$N_m$  = Uncorrected SPT blow Count

$C_E$  = Correction factor for hammer energy ratio

$C_B$  = Correction factor for borehole dia = 1.05 for 150 mm dia borehole

$C_R$  = Correction factor for rod length = 0.75 for 3.0 m to 4.0 m

= 0.85 for 4.0 m to 6.0 m

= 0.95 for 6.0 m to 10.0 m

= 1.0 for 10.0 m to 30.0 m

$C_s$  = Correction factor for standard sampler = 1.0

Correction factor for effective overburden pressure ( $C_N$ ) is given by the following Relation.

$$C_N = \sqrt[3]{(P_a / \sigma_0')}$$

Where  $P_a$  = Atmospheric pressure

The value of SPT blow count for soil with fines content (FC) can be adjusted to the Equivalent clean sand value of  $(N_1)_{60CS}$  as follows:

$$(N_1)_{60CS} = a + b (N_1)_{60}$$

Where  $a$  and  $b$  can be determined as follows.





$a = 0.0$  and  $\beta = 0.0$  for  $FC \leq 5.0\%$

$a = \exp [(1.76 - (190/FC^2))]$  for  $5.0\% < FC < 35.0\%$   $\beta = [0.99 + (FC^{1.5}/1000)]$

$a = 5.0$  and  $\beta = 1.20$  for  $FC \geq 35.0$

% CRRM = 7.5 is given by the following equation.

$$CRRM = 7.5 \frac{1}{34 - (N_1)60CS} + \frac{(N_1)60CS}{135} + \frac{50}{[10 * (N_1)60CS + 45]^2} - \frac{1}{200}$$

Hence the CRR for a particular earthquake magnitude is determined as

$CRR = CRR_{M=7.5} * MSF * K_\sigma$

The MSF value is 1.44 for earthquake of magnitude 6.5.  $K_\sigma$  are taken as 1.

The factor of safety against liquefaction, FSL, is given as  $FSL = CRR/CSR$

The value of CSR and CRR are computed at different depth and depth susceptible to Liquefaction is determined. Liquefaction is probable when FSL is less than 1.0.

Andrews and Martin (2000) have re-evaluated the liquefaction field case histories from the database of Seed et al. (1984, 1985), and have transposed the "Modified Chinese Criteria" to U.S. conventions (with clay sizes defined as those less than about 0.002mm).

Their findings are largely summarized in table below:

	Liquid Limit <32	Liquid Limit >32
Clay content <10%	Susceptible	Further studies required
Clay content >10%	Further Studies required	Not susceptible

Note: 1. Liquid Limit determined by Casagrande type percussion apparatus.

2. Clay defined as grains finer than 0.002m

#### 4.1 Methodology of Investigation

The investigation was planned to obtain the subsurface stratification in the proposed Project site and collect soil / rock samples for laboratory testing to determine the Engineering properties such as shear strength, along with basic engineering Classification of the subsurface stratum.

#### 4.2 Boreholes

For Geotechnical investigation work, drilling rig was installed at the specified borehole Location. The Boreholes were progressed using US made ACRE Hydraulically Operated Rotary Drilling Rig. Boring was advanced at selected / specified borehole Locations. The following steps will be adopted during boring operations.

1. Rotary boring / drilling machine will be assembled at site and will be shifted and Erected at the borehole Location
2. Drilling through soil overburden will be advanced by soil cutters attached at end of drilling rods, drilling in rock will be advanced by drilling bit fixed to the lower End of drill rods with barrel, is rotated by a suitable chuck and always kept in firm Contact with the bottom of the borehole.
3. A mud- laden fluid or grout is pumped continuously down the hole through drill Rods, and the fluid returns to the surface in the annular space between the rod and the side of the hole, and so the protective casing may not be generally necessary. The mud returning upwards brings the cuttings to the surface.
4. After reaching the drill rods attached with the cutting bit attain its full depth another piece (extra 15m rod) will be attached and continue the drilling.





5. Rotating core barrels, provided with commercial diamond bits are also used for rotary drilling and simultaneously obtaining the rock cores or samples.
6. The casing pipe of reduced diameter (NX) if necessary, will be driven up to the Required depth / level as the bore hole is advanced depending upon the rock conditions

The following precautions were taken;

1. Diameter of Borehole was 150mm in soil and Nx size in rock, all field work was supervised by well-trained / experienced persons.
2. Borehole was properly cleaned before taking any sample.
3. Casing was used as per the prevailing soil conditions, to stabilize the borehole.
4. Required field tests i. e, Standard Penetration Tests and collection of undisturbed/disturbed samples was conducted as per requirements and specified depths / Levels, the same has been discussed in detail in sampling and tests in a bore hole clause of this document.

Rock core drilling was advanced using core barrels with diamond bits.

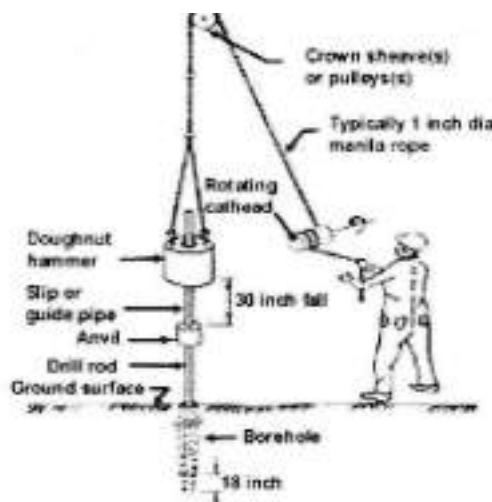
#### 4.3 Standard Penetration Tests (SPT)

Standard Penetration Tests were conducted at specified interval by client internal as per The procedure is in IS: 2131-1981.

For conducting the test, the bottom of the borehole was properly cleaned and split Spoon sampler was properly seated in position in the borehole. The split spoon sampler resting on the bottom of borehole was allowed to sink under its own weight; then the Sampler was seated 15 cm with the blows of the hammer of 63.5 Kg weight falling Through 75 cm. Thereafter, the split spoon sampler was further driven by 30 cm. The Number of blows required to affect each 15 cm of penetration was recorded. The first 15 cm of drive is considered to be seating drive.

The total blows of penetration for the second and third 15 cm of penetration is termed the penetration resistance N. The 'N' values are indicative of the compactness / relative Density of cohesion less soils and consistency of cohesive soils.

In case the blow counts of SPT in soil (including the number of blows for seating) Exceeds 100, the corresponding penetration was recorded and this particular test at that Depth stopped. If the total penetration is more than the seating penetration of 15 cm, then breakup of blow count for 15 cm seating penetration and for remaining portion of Penetration is also be given.







SPT 'N' values are correlated with relative density of non-cohesive stratum as per BS: 5930 (1999) - for sandy Strata and with consistency of cohesive stratum.

CORRELATION FOR CLAY/ PLASTIC SILT		CORRELATION FOR SAND/ NO PLASTIC SILT	
Consistency	Penetration Value	Relative Density	Penetration Value
Very Soft	0 to 2 Blows	Very Loose	0 to 4 Blows
Soft	3 to 4 Blows	Loose	5 to 10 Blows
Medium Stiff	5 to 8 Blows	Medium	11 to 30 Blows
Stiff	9 to 16Blows	Dense	31 to 50 Blows
Very Stiff	17 to 32 Blows	Very Dense	Above 50
Hard	Above 32	---	---

#### 4.4 Disturbed Sampling (Soil) in boreholes

In all boreholes, disturbed soil samples was taken at every 1.5 m interval and at significant Change of stratum (or as per specified). Soil from cutting edge of undisturbed samplers and from split spoon sampler used for standard penetration tests was taken as Disturbed samples. These samples were placed without delay in adequately sealed polythene bags.



Disturbed Soil Sample from SPT

#### 4.5 Undisturbed Sampling (Soil) in Boreholes

Undisturbed sampling was done in accordance with IS: 2132 - 1986. Undisturbed soil Samples (UDS) was obtained at every 3.0 m interval. Undisturbed samples were collected using 100mm dia and 450mm long MS tubes with Area ratio as specified in BIS provided with sampler head with ball check arrangement. Before taking any sample, tubes were properly greased. Immediately after taking an Undisturbed sample in a tube, the adopter head was removed along with the disturbed Material. The visible ends of the sample shall each be trimmed off any wet disturbed Soil. The ends will then be coated alternately with four layers of just molten wax. More Molten wax will then be added to give a total thickness of not less than 25mm.

Undisturbed samples were collected by light hammering; all precautions were taken to Prevent disturbance in transport also. If in laboratory, density is not found in order in Comparison of N values, that sample was treated as disturbed sample, and tests were conducted on remolded samples. Collection of undisturbed samples in hard cohesive soils / dense granular soils / gravels / cobbles / pebbles / boulders, refusal strata is practically not possible and such collected samples will not truly represent the undisturbed conditions.







### Rock Core Samples

Drilling was advanced by rotary core drilling method using double tube core barrels as per the guidelines of IS: 6926-1996. A core barrel and Nx sized bits are used for drilling and recovering rock cores. Recovered rock cores were numbered serially and preserved in good Quality sturdy wooden core boxes

as specified in IS: 4078-1980. Rock core recovery And Rock Quality Designation (ROD) was computed for every run length drilled.

Rock classification in terms of weathering and state of fractures and strength is carried Out in the following manner. Tabulations given in below explain it briefly.

#### Scale of weathering grade of rock mass (As per IS 4464)

Terms	Description	Grade	Geologists' interpretation
Fresh	No visible sign of rock material weathering; perhaps slight Discoloration on major Discontinuity Surfaces.	I	CR>90%
Slightly Weathered	Discoloration indicates weathering of rock Material and Discontinuity surfaces. All the Rock material may be Discoloured by weathering.	II	CR Between 70 % to 90%
Moderately Weathered	Less than half of the rock material is decomposed or Disintegrated to a soil. Fresh or discolored rock is present Either as continuous framework or as copestones.	III	CR Between 51 % to 70%
Highly Weathered	More than half of the rock material is decomposed or Disintegrated to a soil. Fresh or discoloured rock is present either as a discontinuous f framework or as copestones	IV	CR Between 11 % to 50%
Completely Weathered	All rock material is decomposed and / or disintegrated to soil. The original mass structure is still largely intact.	V	CR Between ZERO% to 10%
Residual Soil	All rock material is converted to soil. The mass structure and Material fabric is destroyed. There is a large change in Volume, but the soil has not been significantly transposed.	VI	CR Between ZERO %But N>50%

It should be understood that all grades of weathering may not be seen in a given rock Mass and that in some cases a particular grade may be present to a very small extent. Distribution of the various weathering grades of rock material in the rock mass may be related to the porosity of the rock material and the presence of open discontinuities of all types in the rock mass.

#### 4.6 Relation Between RQD and In-Situ Rock Quality

Rock quality is further measured by frequency of natural joints in rock mass. Rock Quality Designation (ROD) is used to define state of fractures or massiveness of rock.

Following table defines the quality of rock mass.







RQD CLASSIFICATION	RQD (%)
Excellent	91 to 100
Good	76 to 90
Fair	51 to 75
Poor	26 to 50
Very Poor	00 to 25

#### Classification of Rock wrt Compressive Strength

Rock is also classified by strength of intact rock cores collected during drilling. Rock Unconfined Compressive strength (UCS) is used to define strength of rock. Classification Of rocks given in Table 2 of

Appendix-2 of IRC: 78-2014 (Revised Edition) is reproduced below;

ROCK TYPE	UNCONFINED COMPRESSIVE STRENGTH (UCS) in MPa
Extremely Strong	>200
Very Strong	100 TO 200
Strong	50 TO 100
Moderately strong	12.5 TO 50
Moderately Weak	5 TO 12.5
Weak	1.25 TO 5
Very Weak	<1.25

#### 4.7 CAPACITY OF PILES IN INTERMEDIATE GEOMATERIAL & ROCK

The ultimate load carrying capacity may be calculated from one of two approaches given below

Where cores of the rock can be taken and unconfined compressive strength directly established using standard method of testing, the approach described in method-1 shall be used. In situations where strata is highly fragmented, where RQD is nil or  $(CR+RQD)/2$  is less than 30 percent, or where strata is not classified as a granular or clayey soil or when the crushing strength is less than 10 MPa. The approach described in method 2 shall be used. Also, for weak rock like chalk, mud stone, clay stone, shale and other intermediate rocks, method 2 is applicable as per IRC 78-2024.

For the hinged piles resting on rock proper seating has to be ensured. The minimum socket length should be 0.5 times the diameter of the pile in rock.

#### 4.8 Ground Water Table

The depth, at which groundwater will struck during boring, will be carefully noted and the Depth of water table was ascertained subsequently in the completed borehole as given method:

The water table in the borehole will be allowed to stabilize after depressing the water Level adequately by bailing. Stability of the borehole sides and bottom will be ensured at all times. Ground water table measurement shall be done after minimum 2 hrs. of bailing in sandy strata and after 24 hrs. in cohesive strata.







## FEW PICTURES SHOWING FIELD TESTING IN PROGRESS











## 5.1 Laboratory Investigation

Laboratory tests were carried out as directed by client, consultant and approved laboratory Schedules in accordance with the procedures described in the relevant Indian Standard Codes of practiced.

The following laboratory tests were conducted on undisturbed and disturbed soil samples collected from various depths to find physical properties and strength characteristics. To measure the soil properties in the laboratory, following tests were conducted.

Sr. No.	Tests	Recommended Procedures	Type Samples
1	Sample Preparation	IS 2720 Pt. I	DS / UDS
2	Moisture Contents	IS 2720 Pt. II	DS / UDS
3	Dry Unit Weight	LAMBE	UDS
4	Specific Gravity	IS 2720 Pt. III	DS
5	Liquid Limit	IS 2720	DS
6	Plastic Limit	IS 2720 Pt. V	DS
7	Grain Size Analysis	IS 2720 Pt. IV	DS
8	Soil Classification	IS 1498	DS / UDS
9	Direct Shear Test	IS 2720 Pt. XIII	UDS





## 6.1 Results

- P.L.C.C are shown in Summary.
- The laboratory test results of borehole are shown in Table No. 1.
- The Borelog details of borehole are shown in Table No.-2







## 7.1 Soil Stratification

Borehole No.	Depth (meter)	Description
BH- A1	0.00 to 2.00	Clay of Medium Plasticity
	2.00 to 3.00	Completely Weathered Rock recovered in Granular pieces
	3.00 to 6.00	Highly Weathered Rock of Very Weak in Strength
	6.00 to 9.00	Highly Weathered Rock of Moderately Weak in Strength
	9.00 to 14.00	Moderately Weathered Rock of Moderately Strong in Strength
	14.00 to 17.00	Slightly Weathered Rock of Strong in Strength
	17.00 to 19.00	Fresh Rock of Strong in strength

Borehole No.	Depth (meter)	Description
BH- P1	0.00 to 2.00	Clay of Medium Plasticity
	2.00 to 3.00	Completely Weathered Rock recovered in Granular pieces
	3.00 to 6.00	Highly Weathered Rock of Very Weak in Strength
	6.00 to 9.00	Highly Weathered Rock of Moderately Weak in Strength
	9.00 to 14.00	Moderately Weathered Rock of Moderately Strong in Strength
	14.00 to 17.00	Slightly Weathered Rock of Strong in Strength
	17.00 to 19.00	Fresh Rock of Strong in strength

Borehole No.	Depth (meter)	Description
BH- P2	0.00 to 2.00	Clay of Medium Plasticity
	2.00 to 3.00	Completely Weathered Rock recovered in Granular pieces
	3.00 to 6.00	Highly Weathered Rock of Very Weak in Strength
	6.00 to 9.00	Highly Weathered Rock of Moderately Weak in Strength
	9.00 to 12.00	Moderately Weathered Rock of Moderately Strong in Strength
	12.00 to 17.00	Slightly Weathered Rock of Strong in Strength
	17.00 to 19.00	Fresh Rock of Strong in strength







Borehole No.	Depth (meter)	Description
BH- P3	0.00 to 2.00	Clay of Medium Plasticity
	2.00 to 4.00	Completely Weathered Rock recovered in Granular pieces
	4.00 to 6.00	Highly Weathered Rock of Very Weak in Strength
	6.00 to 9.00	Highly Weathered Rock of Moderately Weak in Strength
	9.00 to 13.00	Moderately Weathered Rock of Moderately Strong in Strength
	13.00 to 17.00	Slightly Weathered Rock of Strong in Strength
	17.00 to 19.00	Fresh Rock of Strong in strength

Borehole No.	Depth (meter)	Description
BH- P4	0.00 to 2.00	Clay of High Plasticity
	2.00 to 4.00	Completely Weathered Rock recovered in Granular pieces
	4.00 to 9.00	Highly Weathered Rock of Moderately Weak in Strength
	9.00 to 13.00	Moderately Weathered Rock of Moderately Strong in Strength
	13.00 to 19.00	Slightly Weathered Rock of Strong in Strength

Borehole No.	Depth (meter)	Description
BH- P5	0.00 to 2.00	Clay of High Plasticity
	2.00 to 3.00	Completely Weathered Rock recovered in Granular pieces
	3.00 to 4.00	Highly Weathered Rock of Very Weak in Strength
	4.00 to 9.00	Highly Weathered Rock of Moderately Weak in Strength
	9.00 to 13.00	Moderately Weathered Rock of Moderately Strong in Strength
	13.00 to 18.00	Slightly Weathered Rock of Strong in Strength
	18.00 to 19.00	Fresh Rock of Strong in strength







Borehole No.	Depth (meter)	Description
BH- P6	0.00 to 2.00	Clay of High Plasticity
	2.00 to 3.00	Completely Weathered Rock recovered in Granular pieces
	3.00 to 5.00	Highly Weathered Rock of Very Weak in Strength
	5.00 to 9.00	Highly Weathered Rock of Moderately Weak in Strength
	9.00 to 10.00	Moderately Weathered Rock of Moderately Strong in Strength
	10.00 to 18.00	Slightly Weathered Rock of Strong in Strength
	18.00 to 19.00	Fresh Rock of Strong in strength

Borehole No.	Depth (meter)	Description
BH- P7	0.00 to 2.00	Clay of Medium Plasticity
	2.00 to 3.00	Completely Weathered Rock recovered in Granular pieces
	3.00 to 5.00	Highly Weathered Rock of Very Weak in Strength
	5.00 to 9.00	Highly Weathered Rock of Moderately Weak in Strength
	9.00 to 12.00	Moderately Weathered Rock of Moderately Strong in Strength
	12.00 to 16.00	Slightly Weathered Rock of Strong in Strength
	16.00 to 19.00	Fresh Rock of Strong in strength

Borehole No.	Depth (meter)	Description
BH- P8	0.00 to 2.00	Clay of Medium Plasticity
	2.00 to 3.00	Completely Weathered Rock recovered in Granular pieces
	3.00 to 6.00	Highly Weathered Rock of Very Weak in Strength
	6.00 to 9.00	Highly Weathered Rock of Moderately Weak in Strength
	9.00 to 13.00	Moderately Weathered Rock of Moderately Strong in Strength
	13.00 to 17.00	Slightly Weathered Rock of Strong in Strength
	17.00 to 19.00	Fresh Rock of Strong in strength







Borehole No.	Depth (meter)	Description
BH- P9	0.00 to 2.00	Clay of Medium Plasticity
	2.00 to 4.00	Completely Weathered Rock recovered in Granular pieces
	4.00 to 6.00	Highly Weathered Rock of Very Weak in Strength
	6.00 to 9.00	Highly Weathered Rock of Moderately Weak in Strength
	9.0 to 14.00	Moderately Weathered Rock of Moderately Strong in Strength
	14.00 to 19.00	Slightly Weathered Rock of Strong in Strength

Borehole No.	Depth (meter)	Description
BH- P10	0.00 to 2.00	Clay of Medium Plasticity
	2.00 to 4.00	Completely Weathered Rock recovered in Granular pieces
	4.00 to 7.00	Highly Weathered Rock of Very Weak in Strength
	7.00 to 9.00	Highly Weathered Rock of Moderately Weak in Strength
	9.0 to 11.00	Moderately Weathered Rock of Moderately Strong in Strength
	11.00 to 19.00	Slightly Weathered Rock of Strong in Strength

Borehole No.	Depth (meter)	Description
BH- P11	0.00 to 3.00	Clay of High Plasticity
	3.00 to 4.00	Completely Weathered Rock recovered in Granular pieces
	4.00 to 7.00	Highly Weathered Rock of Very Weak in Strength
	7.00 to 8.00	Highly Weathered Rock of Weak in Strength
	8.00 to 12.00	Highly Weathered Rock of Moderately Weak in Strength
	12.00 to 14.00	Highly Weathered Rock of Moderately Strong in Strength
	14.00 to 17.00	Moderately Weathered Rock of Moderately Strong in Strength
	17.00 to 19.00	Slightly Weathered Rock of Strong in Strength





Borehole No.	Depth (meter)	Description
BH- P12	0.00 to 3.00	Clay of High Plasticity
	3.00 to 4.00	Completely Weathered Rock recovered in Granular pieces
	4.00 to 7.00	Highly Weathered Rock of Very Weak in Strength
	7.00 to 8.00	Highly Weathered Rock of Weak in Strength
	8.00 to 12.00	Highly Weathered Rock of Moderately Weak in Strength
	12.00 to 15.00	Highly Weathered Rock of Moderately Strong in Strength
	15.00 to 17.00	Moderately Weathered Rock of Moderately Strong in Strength
	17.00 to 19.00	Slightly Weathered Rock of Strong in Strength

Borehole No.	Depth (meter)	Description
BH- P13	0.00 to 2.00	Clay of Medium Plasticity
	2.00 to 4.00	Completely Weathered Rock recovered in Granular pieces
	4.00 to 7.00	Highly Weathered Rock of Very Weak in Strength
	7.00 to 9.00	Highly Weathered Rock of Moderately Weak in Strength
	9.00 to 11.00	Moderately Weathered Rock of Moderately Strong in Strength
	11.00 to 13.00	Slightly Weathered Rock of Strong in Strength
	13.00 to 14.00	Fresh Rock of Strong in Strength
	14.00 to 19.00	Slightly Weathered Rock of Strong in Strength





Borehole No.	Depth (meter)	Description
BH- P14	0.00 to 1.50	Clay of Medium Plasticity
	1.50 to 6.00	Completely Weathered Rock Recovered in Residual Form
	6.00 to 9.00	Highly Weathered Rock of Very Weak in Strength
	9.00 to 11.00	Highly Weathered Rock of Moderately weak in Strength
	11.00 to 14.00	Moderately Weathered Rock of Moderately Strong in Strength
	14.00 to 17.00	Slightly Weathered Rock of Moderately Strong in Strength
	17.00 to 19.00	Slightly Weathered Rock of Strong in Strength

Borehole No.	Depth (meter)	Description
BH- P15	0.00 to 1.50	Clay of High Plasticity
	1.50 to 5.00	Completely Weathered Rock Recovered in Residual Form
	5.00 to 9.00	Highly Weathered Rock of Very Weak in Strength
	9.00 to 14.00	Moderately Weathered Rock of Moderately Strong in Strength
	14.00 to 17.00	Slightly Weathered Rock of Moderately Strong in Strength
	17.00 to 19.00	Slightly Weathered Rock of Strong in Strength







Borehole No.	Depth (meter)	Description
BH- P16	0.00 to 1.50	Clay of High Plasticity
	1.50 to 5.00	Completely Weathered Rock Recovered in Residual Form
	5.00 to 9.00	Highly Weathered Rock of Very Weak in Strength
	9.00 to 14.00	Moderately Weathered Rock of Moderately Strong in Strength
	14.00 to 17.00	Slightly Weathered Rock of Moderately Strong in Strength
	17.00 to 19.00	Slightly Weathered Rock of Strong in Strength

Borehole No.	Depth (meter)	Description
BH- P17	0.00 to 2.00	Clay of High Plasticity
	2.00 to 5.00	Completely Weathered Rock recovered in Granular pieces
	5.00 to 7.00	Highly Weathered Rock of Very Weak in Strength
	7.00 to 9.00	Highly Weathered Rock of Moderately Weak in Strength
	9.00 to 10.00	Moderately Weathered Rock of Moderately Strong in Strength
	10.00 to 13.00	Slightly Weathered Rock of Moderately Strong in Strength
	13.00 to 15.00	Fresh Rock of Strong in Strength
	15.00 to 17.00	Slightly Weathered Rock of Strong in Strength
	17.00 to 19.00	Fresh Rock of Strong in Strength





Borehole No.	Depth (meter)	Description
BH- P18	0.00 to 3.00	Clay of High Plasticity
	3.00 to 5.00	Completely Weathered Rock recovered in Granular pieces
	5.00 to 8.00	Highly Weathered Rock of Moderately Weak in Strength
	8.00 to 10.00	Highly Weathered Rock of Moderately Strong in Strong
	10.00 to 12.00	Moderately Weathered Rock of Strong in Strength
	12.00 to 17.00	Slightly Weathered Rock of Strong in Strength
	17.00 to 19.00	Fresh Rock of Strong in Strength

Borehole No.	Depth (meter)	Description
BH- P19	0.00 to 3.00	Clay of High Plasticity
	3.00 to 6.00	Completely Weathered Rock recovered in Granular pieces
	6.00 to 8.00	Highly Weathered Rock of Moderately Weak in Strength
	8.00 to 10.00	Highly Weathered Rock of Moderately Strong in Strong
	10.00 to 12.00	Moderately Weathered Rock of Strong in Strength
	12.00 to 17.00	Slightly Weathered Rock of Strong in Strength
	17.00 to 19.00	Fresh Rock of Strong in Strength

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Borehole No.	Depth (meter)	Description
BH- P20	0.00 to 2.00	Clay of High Plasticity
	2.00 to 5.00	Completely Weathered Rock recovered in Granular pieces
	5.00 to 6.00	Highly Weathered Rock of Very Weak in Strength
	6.00 to 8.00	Highly Weathered Rock of Moderately Weak in Strength
	8.00 to 10.00	Highly Weathered Rock of Moderately Strong in Strong
	10.00 to 13.00	Slightly Weathered Rock of Strong in Strength
	13.00 to 14.00	Fresh Rock of Strong in Strength
	14.00 to 17.00	Slightly Weathered Rock of Strong in Strength
	17.00 to 19.00	Fresh Rock of Strong in Strength

Borehole No.	Depth (meter)	Description
BH- P21	0.00 to 2.00	Clay of High Plasticity
	2.00 to 4.00	Completely Weathered Rock recovered in Granular pieces
	4.00 to 7.00	Highly Weathered Rock of Very Weak in Strength
	7.00 to 8.00	Highly Weathered Rock of Moderately Weak in Strength
	8.00 to 10.00	Highly Weathered Rock of Moderately Strong in Strong
	10.00 to 13.00	Slightly Weathered Rock of Strong in Strength
	13.00 to 14.00	Fresh Rock of Strong in Strength
	14.00 to 17.00	Slightly Weathered Rock of Strong in Strength
	17.00 to 19.00	Fresh Rock of Strong in Strength

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Borehole No.	Depth (meter)	Description
BH- P22	0.00 to 2.00	Clay of High Plasticity
	2.00 to 5.00	Completely Weathered Rock recovered in Granular pieces
	5.00 to 7.00	Highly Weathered Rock of Very Weak in Strength
	7.00 to 8.00	Highly Weathered Rock of Moderately Weak in Strength
	8.00 to 10.00	Highly Weathered Rock of Moderately Strong in Strong
	10.00 to 13.00	Slightly Weathered Rock of Strong in Strength
	13.00 to 15.00	Fresh Rock of Strong in Strength
	15.00 to 17.00	Slightly Weathered Rock of Strong in Strength
	17.00 to 19.00	Fresh Rock of Strong in Strength

Borehole No.	Depth (meter)	Description
BH- P23	0.00 to 2.00	Clay of High Plasticity
	2.00 to 4.00	Completely Weathered Rock recovered in Granular pieces
	4.00 to 7.00	Highly Weathered Rock of Very Weak in Strength
	7.00 to 8.00	Highly Weathered Rock of Moderately Weak in Strength
	8.00 to 10.00	Highly Weathered Rock of Moderately Strong in Strong
	10.00 to 15.00	Slightly Weathered Rock of Strong in Strength
	15.00 to 19.00	Fresh Rock of Strong in Strength

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Borehole No.	Depth (meter)	Description
BH- P24	0.00 to 1.50	Clay of High Plasticity
	1.50 to 4.00	Completely Weathered Rock recovered in Granular pieces
	4.00 to 7.00	Highly Weathered Rock of Very Weak in Strength
	7.00 to 9.00	Highly Weathered Rock of Moderately Weak in Strength
	9.00 to 11.00	Highly Weathered Rock of Moderately Strong in Strong
	11.00 to 15.00	Slightly Weathered Rock of Strong in Strength
	15.00 to 19.00	Fresh Rock of Strong in Strength

Borehole No.	Depth (meter)	Description
BH- P25	0.00 to 2.00	Clay of High Plasticity
	2.00 to 5.00	Completely Weathered Rock recovered in Granular pieces
	5.00 to 7.00	Highly Weathered Rock of Very Weak in Strength
	7.00 to 8.00	Highly Weathered Rock of Moderately Weak in Strength
	8.00 to 10.00	Highly Weathered Rock of Moderately Strong in Strong
	10.00 to 13.00	Slightly Weathered Rock of Strong in Strength
	13.00 to 15.00	Fresh Rock of Strong in Strength
	15.00 to 17.00	Slightly Weathered Rock of Strong in Strength
	17.00 to 19.00	Fresh Rock of Strong in Strength

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Borehole No.	Depth (meter)	Description
BH- P26	0.00 to 4.00	Completely weathered rock Recovered in Residual form
	4.00 to 8.00	Completely Weathered Rock recovered in Granular pieces
	8.00 to 11.00	Moderately weathered rock of Moderately Strong in strength
	11.00 to 12.00	Slightly weathered rock of Moderately Strong in strength
	12.00 to 14.00	Fresh Rock of Moderately to Strong in strength
	14.00 to 16.00	Slightly weathered rock of Strong in strength
	16.00 to 19.00	Fresh Rock of Strong in strength

Borehole No.	Depth (meter)	Description
BH- P27	0.00 to 1.50	Clay of High Plasticity
	1.50 to 4.00	Completely Weathered Rock recovered in Granular pieces
	4.00 to 7.00	Highly Weathered Rock of Very Weak in Strength
	7.00 to 9.00	Highly Weathered Rock of Moderately Weak in Strength
	9.00 to 11.00	Moderately Weathered Rock of Moderately Strong in Strength
	11.00 to 15.00	Slightly Weathered Rock of Strong in Strength
	15.00 to 19.00	Fresh Rock of Strong in strength





Borehole No.	Depth (meter)	Description
BH- P28	0.00 to 2.00	Clay of High Plasticity
	2.00 to 5.00	Completely Weathered Rock recovered in Granular pieces
	5.00 to 7.00	Highly Weathered Rock of Very Weak in Strength
	7.00 to 9.00	Highly Weathered Rock of Moderately Weak in Strength
	9.00 to 10.00	Highly Weathered Rock of Moderately Strong in Strong
	10.00 to 13.00	Slightly Weathered Rock of Strong in Strength
	13.00 to 15.00	Fresh Rock of Strong in Strength
	15.00 to 17.00	Slightly Weathered Rock of Strong in Strength
	17.00 to 19.00	Fresh Rock of Strong in Strength

Borehole No.	Depth (meter)	Description
BH- P29	0.00 to 1.50	Clay of Medium Plasticity
	1.50 to 4.00	Completely Weathered Rock Recovered in Residual Form
	4.00 to 7.00	Highly Weathered Rock of Very Weak in Strength
	7.00 to 9.00	Highly Weathered Rock of Weak in Strength
	9.00 to 11.00	Moderately Weathered Rock of Moderately Weak in Strength
	11.00 to 15.00	Slightly Weathered Rock of Moderately Strong in Strength
	15.00 to 19.00	Slightly Weathered Rock of Strong in Strength

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Borehole No.	Depth (meter)	Description
BH- P30	0.00 to 1.50	Clay of High Plasticity
	1.50 to 6.00	Completely Weathered Rock Recovered in Residual Form
	6.00 to 9.00	Highly Weathered Rock of Very Weak in Strength
	9.00 to 10.00	Highly Weathered Rock of Weak in Strength
	10.00 to 14.00	Moderately Weathered Rock of Moderately Weak in Strength
	14.00 to 17.00	Slightly Weathered Rock of Moderately Strong in Strength
	17.00 to 19.00	Slightly Weathered Rock of Strong in Strength

Borehole No.	Depth (meter)	Description
BH- P31	0.00 to 1.50	Clay of High Plasticity
	1.50 to 6.00	Completely Weathered Rock Recovered in Residual Form
	6.00 to 9.00	Highly Weathered Rock of Very Weak in Strength
	9.00 to 10.00	Highly Weathered Rock of Weak in Strength
	10.00 to 14.00	Moderately Weathered Rock of Moderately Weak in Strength
	14.00 to 17.00	Slightly Weathered Rock of Moderately Strong in Strength
	17.00 to 19.00	Slightly Weathered Rock of Strong in Strength

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Borehole No.	Depth (meter)	Description
BH- P32	0.00 to 2.00	Clay of High Plasticity
	2.00 to 5.00	Completely Weathered Rock recovered in Granular pieces
	5.00 to 7.00	Highly Weathered Rock of Very Weak in Strength
	7.00 to 9.00	Highly Weathered Rock of Moderately Weak in Strength
	9.00 to 10.00	Highly Weathered Rock of Moderately Strong in Strong
	10.00 to 13.00	Slightly Weathered Rock of Strong in Strength
	13.00 to 15.00	Fresh Rock of Strong in Strength
	15.00 to 19.00	Slightly Weathered Rock of Strong in Strength

Borehole No.	Depth (meter)	Description
BH- P33	0.00 to 2.00	Clay of High Plasticity
	2.00 to 5.00	Completely Weathered Rock recovered in Granular pieces
	5.00 to 7.00	Highly Weathered Rock of Very Weak in Strength
	7.00 to 9.00	Highly Weathered Rock of Moderately Weak in Strength
	9.00 to 10.00	Highly Weathered Rock of Moderately Strong in Strong
	10.00 to 13.00	Slightly Weathered Rock of Strong in Strength
	13.00 to 15.00	Fresh Rock of Strong in Strength
	15.00 to 19.00	Slightly Weathered Rock of Strong in Strength





Borehole No.	Depth (meter)	Description
BH- P34	0.00 to 2.00	Clay of Medium Plasticity
	2.00 to 4.00	Completely Weathered Rock recovered in Granular pieces
	4.00 to 7.00	Highly Weathered Rock of Very Weak in Strength
	7.00 to 9.00	Highly Weathered Rock of Moderately Weak in Strength
	9.00 to 11.00	Highly Weathered Rock of Moderately Strong in Strong
	11.00 to 13.00	Slightly Weathered Rock of Strong in Strength
	13.00 to 15.00	Fresh Rock of Strong in Strength
	15.00 to 19.00	Slightly Weathered Rock of Strong in Strength

Borehole No.	Depth (meter)	Description
BH- P35	0.00 to 1.50	Clay of Medium Plasticity
	1.50 to 6.00	Completely Weathered Rock Recovered in Residual Form
	6.00 to 9.00	Highly Weathered Rock of Very Weak in Strength
	9.00 to 11.00	Highly Weathered Rock of Weak in Strength
	11.00 to 14.00	Moderately Weathered Rock of Moderately Weak in Strength
	14.00 to 17.00	Slightly Weathered Rock of Moderately Strong in Strength
	17.00 to 19.00	Slightly Weathered Rock of Strong in Strength





Borehole No.	Depth (meter)	Description
BH- P36	0.00 to 1.50	Clay of Medium Plasticity
	1.50 to 6.00	Completely Weathered Rock Recovered in Residual Form
	6.00 to 9.00	Highly Weathered Rock of Very Weak in Strength
	9.00 to 11.00	Highly Weathered Rock of Weak in Strength
	11.00 to 14.00	Moderately Weathered Rock of Moderately Weak in Strength
	14.00 to 17.00	Slightly Weathered Rock of Moderately Strong in Strength
	17.00 to 19.00	Slightly Weathered Rock of Strong in Strength

Borehole No.	Depth (meter)	Description
BH- P37	0.00 to 3.00	Clay of High Plasticity
	3.00 to 5.00	Completely Weathered Rock recovered in Granular pieces
	5.00 to 7.00	Highly Weathered Rock of Very Weak in Strength
	7.00 to 8.00	Highly Weathered Rock of Weak in Strength
	8.00 to 10.00	Highly Weathered Rock of Moderately Weak in Strength
	10.00 to 12.00	Moderately Weathered Rock of Moderately Strong in Strength
	12.00 to 15.00	Slightly Weathered Rock of Moderately Strong in Strength
	15.00 to 19.00	Slightly Weathered Rock of Strong in Strength







Borehole No.	Depth (meter)	Description
BH- P38	0.00 to 4.00	Clay of High Plasticity
	4.00 to 5.00	Completely Weathered Rock recovered in Granular pieces
	5.00 to 7.00	Highly Weathered Rock of Very Weak in Strength
	7.00 to 8.00	Highly Weathered Rock of Weak in Strength
	8.00 to 10.00	Highly Weathered Rock of Moderately Weak in Strength
	10.00 to 12.00	Moderately Weathered Rock of Moderately Strong in Strength
	12.00 to 16.00	Slightly Weathered Rock of Moderately Strong in Strength
	16.00 to 19.00	Slightly Weathered Rock of Strong in Strength

Borehole No.	Depth (meter)	Description
BH- P39	0.00 to 4.00	Clay of High Plasticity
	4.00 to 5.00	Completely Weathered Rock Recovered in Granular Form
	5.00 to 6.00	Highly Weathered Rock
	6.00 to 7.00	Highly Weathered Rock of Very Weak in Strength
	7.00 to 8.00	Highly Weathered Rock of Weak in Strength
	8.00 to 10.00	Highly Weathered Rock of Moderately Weak in Strength
	10.00 to 11.00	Moderately Weathered Rock of Moderately Strong in Strength
	11.00 to 12.00	Highly Weathered Rock of Moderately Strong in Strength
	12.00 to 15.00	Slightly Weathered Rock of Moderately Strong in Strength
	15.00 to 19.00	Fresh Rock of Strong in StrSlightly Weathered Rock of Strong in Strength

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Borehole No.	Depth (meter)	Description
BH- P40	0.00 to 3.00	Clay of High Plasticity
	3.00 to 4.00	Completely Weathered Rock recovered in Granular pieces
	4.00 to 8.00	Highly Weathered Rock of Very Weak in Strength
	8.00 to 9.00	Highly Weathered Rock of Weak in Strength
	9.00 to 11.00	Highly Weathered Rock of Moderately Weak in Strength
	11.00 to 14.00	Highly Weathered Rock of Moderately Strong in Strength
	14.00 to 16.00	Moderately Weathered Rock of Moderately Strong in Strength
	16.00 to 18.00	Slightly Weathered Rock of Moderately Strong in Strength
	18.00 to 19.00	Slightly Weathered Rock of Strong in Strength

Borehole No.	Depth (meter)	Description
BH- P41	0.00 to 3.00	Clay of High Plasticity
	3.00 to 5.00	Completely Weathered Rock recovered in Granular pieces
	5.00 to 7.00	Highly Weathered Rock of Very Weak in Strength
	7.00 to 8.00	Highly Weathered Rock of Weak in Strength
	8.00 to 12.00	Highly Weathered Rock of Moderately Weak in Strength
	12.00 to 15.00	Highly Weathered Rock of Moderately Strong in Strength
	15.00 to 17.00	Moderately Weathered Rock of Moderately Strong in Strength
	17.00 to 19.00	Slightly Weathered Rock of Strong in Strength







Borehole No.	Depth (meter)	Description
BH- P42	0.00 to 1.50	Clay of High Plasticity
	1.50 to 3.00	Completely Weathered Rock Recovered in Residual Form
	3.00 to 5.00	Completely Weathered Rock recovered in Granular pieces
	5.00 to 6.00	Highly Weathered Rock of Very Weak in Strength
	6.00 to 8.00	Highly Weathered Rock of Weak in Strength
	8.00 to 12.00	Highly Weathered Rock of Moderately Weak in Strength
	12.00 to 15.00	Highly Weathered Rock of Moderately Strong in Strength
	15.00 to 19.00	Moderately Weathered Rock of Moderately Strong in Strength

Borehole No.	Depth (meter)	Description
BH- P43	0.00 to 1.50	Clay of High Plasticity
	1.50 to 3.00	Clay of Medium Plasticity
	3.00 to 4.00	Completely Weathered Rock Recovered in Granular Form
	4.00 to 6.00	Highly Weathered Rock of Very Weak in Strength
	6.00 to 8.00	Highly Weathered Rock of Weak in Strength
	8.00 to 12.00	Highly Weathered Rock of Moderately Weak in Strength
	12.00 to 15.00	Highly Weathered Rock of Moderately Strong in Strength
	15.00 to 19.00	Moderately Weathered Rock of Moderately Strong in Strength





Borehole No.	Depth (meter)	Description
BH- P44	0.00 to 1.50	Clay of High Plasticity
	1.50 to 4.00	Completely Weathered Rock Recovered in Granular Form
	4.00 to 6.00	Highly Weathered Rock of Very Weak in Strength
	6.00 to 8.00	Highly Weathered Rock of Weak in Strength
	8.00 to 12.00	Highly Weathered Rock of Moderately Weak in Strength
	12.00 to 15.00	Highly Weathered Rock of Moderately Strong in Strength
	15.00 to 18.00	Moderately Weathered Rock of Moderately Strong in Strength
	18.00 to 19.00	Slightly Weathered Rock of Moderately Strong in Strength

Borehole No.	Depth (meter)	Description
BH- P45	0.00 to 3.00	Clay of High Plasticity
	3.00 to 4.00	Completely Weathered Rock Recovered in Residual Form
	4.00 to 6.00	Highly Weathered Rock of Very Weak in Strength
	6.00 to 9.010	Highly Weathered Rock of Weak in Strength
	9.00 to 13.00	Highly Weathered Rock of Moderately Weak in Strength
	12.00 to 15.00	Highly Weathered Rock of Moderately Strong in Strength
	15.00 to 19.00	Moderately Weathered Rock of Moderately Strong in Strength

Borehole No.	Depth (meter)	Description
BH- P46	0.00 to 3.00	Clay of High Plasticity
	3.00 to 6.00	Completely Weathered Rock Recovered in Residual Form
	6.00 to 8.00	Highly Weathered Rock of Weak in Strength
	8.00 to 13.00	Highly Weathered Rock of Moderately Weak in Strength
	13.00 to 15.00	Highly Weathered Rock of Moderately Strong in Strength
	15.00 to 19.00	Moderately Weathered Rock of Moderately Strong in Strength







Borehole No.	Depth (meter)	Description
BH- P47	0.00 to 2.00	Clay of High Plasticity
	2.00 to 3.00	Completely Weathered Rock Recovered in Residual Form
	3.00 to 5.00	Completely weathered rock recovered in Granular form
	5.00 to 8.00	Highly weathered rock of weak in strength
	8.00 to 13.00	Highly weathered rock of Moderate weak in strength
	13.00 to 15.00	Highly weathered rock of Moderate strong in strength
	15.00 to 19.00	Moderately weathered rock of Moderate strong in strength

Borehole No.	Depth (meter)	Description
BH- P48	0.00 to 1.50	Clay of High Plasticity
	1.50 to 4.00	Completely weathered rock recovered in Granular form
	4.00 to 6.00	Highly weathered rock of very weak in strength
	6.00 to 8.00	Highly weathered rock of weak in strength
	8.00 to 12.00	Highly weathered rock of Moderate weak in strength
	12.00 to 15.00	Highly weathered rock of Moderate strong in strength
	15.00 to 19.00	Moderately weathered rock of Moderate strong in strength





Borehole No.	Depth (meter)	Description
BH- P49	0.00 to 1.50	Clay of high Plasticity
	1.50 to 4.00	Residual Soil
	4.00 to 6.00	Highly weathered factured rock of weak in strength
	6.00 to 8.00	Highly weathered factured rock of moderately weak in strength
	8.00 to 12.00	Highly weathered rock of moderately weak in strength
	12.00 to 15.00	Highly weathered rock of moderately strong in strength
	15.00 to 19.00	Moderately weathered rock of moderately strong in strength
	15.00 to 19.01	Slightly weathered rock of moderately strong in strength

Borehole No.	Depth (meter)	Description
BH- P50	0.00 to 3.00	Clay of high Plasticity
	3.00 to 6.00	Residual Soil
	6.00 to 8.00	Highly weathered factured rock of weak in strength
	8.00 to 13.00	Highly weathered factured rock of moderately weak in strength
	13.00 to 15.00	Highly weathered rock of moderately strong in strength
	15.00 to 19.00	Moderately weathered rock of moderately strong in strength





Borehole No.	Depth (meter)	Description
BH- P51	0.00 to 3.00	Clay of High Plasticity
	3.00 to 4.00	Residual Soil
	4.00 to 7.00	Highly weathered factured rock of weak in strength
	7.00 to 9.00	Highly weathered factured rock of moderately weak in strength
	9.00 to 13.00	Highly weathered rock of moderately weak in strength
	13.00 to 17.00	Highly weathered rock of moderately strong in strength
	17.00 to 23.00	Moderately weathered rock of moderately strong in strength
	23.00 to 26.00	Slightly weathered rock of moderately strong in strength

Borehole No.	Depth (meter)	Description
BH- P52	0.00 to 3.00	Clay of High Plasticity
	3.00 to 6.00	Poorly graded silty sand
	6.00 to 8.00	Completely weathered rock
	8.00 to 12.00	Highly weathered rock of weak in strength
	12.00 to 17.00	Highly weathered rock of moderately weak in strength
	17.00 to 20.00	Highly weathered rock of moderately strong in strength
	20.00 to 24.00	Moderately weathered rock of moderately strong in strength

Borehole No.	Depth (meter)	Description
BH- P53	0.00 to 3.00	Clay of high Plasticity
	3.00 to 6.00	Residual Soil mixed with boulders
	6.00 to 8.00	Completely weathered rock
	8.00 to 12.00	Highly weathered rock of weak in strength
	12.00 to 17.00	Highly weathered rock of moderately weak in strength
	17.00 to 21.00	Highly weathered rock of moderately strong in strength
	21.00 to 25.00	Moderately weathered rock of moderately strong in strength







Borehole No.	Depth (meter)	Description
BH- P54	0.00 to 3.00	Clay of High Plasticity
	3.00 to 6.00	Poorly graded silty sand
	6.00 to 8.00	Completely weathered rock
	8.00 to 12.00	Highly weathered rock of weak in strength
	12.00 to 17.00	Highly weathered rock of moderately weak in strength
	17.00 to 20.00	Highly weathered rock of moderately strong in strength
	20.00 to 24.00	Moderately weathered rock of moderately strong in strength

Borehole No.	Depth (meter)	Description
BH- P55	0.00 to 3.00	Clay of High Plasticity
	3.00 to 4.00	Poorly graded silty sand
	4.00 to 8.00	Highly weathered rock of Very weak in strength
	8.00 to 12.00	Highly weathered rock of weak in strength
	12.00 to 16.00	Highly weathered rock of moderately weak in strength
	16.00 to 20.00	Highly weathered rock of moderately strong in strength

Borehole No.	Depth (meter)	Description
BH- P56	0.00 to 3.00	Clay of High Plasticity
	3.00 to 6.00	Poorly graded silty sand
	6.00 to 8.00	Highly weathered rock of Very weak in strength
	8.00 to 12.00	Highly weathered rock of weak in strength
	12.00 to 17.00	Highly weathered rock of moderately weak in strength
	17.00 to 20.00	Highly weathered rock of moderately strong in strength





Borehole No.	Depth (meter)	Description
BH- P57	1.00 to 3.00	Clay of High Plasticity
	3.00 to 6.00	Poorly graded silty sand
	6.00 to 9.00	Highly weathered rock of Very weak in strength
	9.00 to 12.00	Highly weathered rock of weak in strength
	12.00 to 17.00	Highly weathered rock of moderately weak in strength
	17.00 to 20.00	Highly weathered rock of moderately strong in strength

Borehole No.	Depth (meter)	Description
BH- P58	0.00 to 3.00	Clay of High Plasticity
	3.00 to 6.00	Poorly graded silty sand
	6.00 to 9.00	Highly weathered rock of Very weak in strength
	9.00 to 12.00	Highly weathered rock of weak in strength
	12.00 to 17.00	Highly weathered rock of moderately weak in strength
	17.00 to 20.00	Highly weathered rock of moderately strong in strength

Borehole No.	Depth (meter)	Description
BH- P59	0.00 to 1.50	Clay of High Plasticity
	1.50 to 5.00	Completely Weathered Rock Recovered in Residual Form
	5.00 to 7.00	Highly Weathered Rock of Very Weak in Strength
	7.00 to 17.00	Highly weathered rock of weak in strength
	17.00 to 20.00	Highly Weathered Rock of Moderately Weak in Strength





Borehole No.	Depth (meter)	Description
BH- P60	0.00 to 1.50	Clay of High Plasticity
	1.50 to 4.00	Completely Weathered Rock Recovered in Residual Form
	4.00 to 5.00	Completely Weathered Rock Recovered in Granular Pieces
	5.00 to 7.00	Highly Weathered Rock of Very Weak in Strength
	7.00 to 18.00	Highly weathered rock of weak in strength
	18.00 to 20.00	Highly Weathered Rock of Moderately Weak in Strength

Borehole No.	Depth (meter)	Description
BH- P61	0.00 to 2.00	Clay of High Plasticity
	2.00 to 4.00	Completely Weathered Rock Recovered in Residual Form
	4.00 to 5.00	Completely Weathered Rock Recovered in Granular Pieces
	5.00 to 7.00	Highly Weathered Rock of Very Weak in Strength
	7.00 to 18.00	Highly weathered rock of weak in strength
	18.00 to 20.00	Highly Weathered Rock of Moderately Weak in Strength

Borehole No.	Depth (meter)	Description
BH- P62	0.00 to 2.00	Clay of Medium Plasticity
	2.00 to 4.00	Completely Weathered Rock Recovered in Residual Form
	4.00 to 5.00	Completely Weathered Rock Recovered in Granular Pieces
	5.00 to 7.00	Highly Weathered Rock of Very Weak in Strength
	5.00 to 16.00	Highly weathered rock of weak in strength
	16.00 to 20.00	Highly Weathered Rock of Moderately Weak in Strength

S. Naveen



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Borehole No.	Depth (meter)	Description
BH- P63	0.00 to 2.00	Clay of High Plasticity
	2.00 to 4.00	Completely Weathered Rock Recovered in Residual Form
	4.00 to 6.00	Completely Weathered Rock Recovered in Granular Pieces
	6.00 to 10.00	Highly Weathered Rock of Very Weak in Strength
	10.00 to 15.00	Highly weathered rock of weak in strength
	15.00 to 20.00	Highly Weathered Rock of Moderately Weak in Strength

Borehole No.	Depth (meter)	Description
BH- P64	0.00 to 2.00	Clay of High Plasticity
	2.00 to 4.00	Completely Weathered Rock Recovered in Residual Form
	4.00 to 6.00	Completely Weathered Rock Recovered in Granular Pieces
	6.00 to 10.00	Highly Weathered Rock of Very Weak in Strength
	10.0 to 15.00	Highly weathered rock of weak in strength
	15.00 to 20..00	Highly Weathered Rock of Moderately Weak in Strength

Borehole No.	Depth (meter)	Description
BH- P65	0.00 to 2.00	Clay of High Plasticity
	2.00 to 4.00	Completely Weathered Rock Recovered in Residual Form
	4.00 to 7.00	Highly Weathered Rock of Very Weak in Strength
	7.00 to 14.00	Highly Weathered Rock of Weak in Strength
	14.0 to 16.00	Moderately Weathered Rock of Moderately Weak in Strength
	16.0 to 18.00	Highly Weathered Rock of Weak in Strength
	18.00 to 20.00	Highly Weathered Rock of Moderately Weak in Strength

S. Naveen



Vishwas Geotech Pvt. Ltd.







Borehole No.	Depth (meter)	Description
BH- P66	0.00 to 1.50	Clay of High Plasticity
	1.50 to 2.00	Completely Weathered Rock Recovered in Residual Form
	2.00 to 4.00	Completely Weathered Rock Recovered in Granular Pieces
	4.00 to 6.00	Highly Weathered Rock of Very Weak in Strength
	6.0 to 10.00	Highly Weathered Rock of Weak in Strength
	10.0 to 15.00	Moderately Weathered Rock of Moderately Weak in Strength
	15.00 to 16.00	Highly Weathered Rock of Weak in Strength
	16.00 to 18.00	Highly Weathered Rock of Moderately Weak in Strength
	18.00 to 20.00	Highly Weathered Rock of Moderately Weak in Strength

Borehole No.	Depth (meter)	Description
BH- P67	0.00 to 3.00	Clay of High Plasticity
	3.00 to 4.00	Completely Weathered Rock Recovered in Residual Form
	4.00 to 5.00	Completely Weathered Rock Recovered in Granular Pieces
	5.00 to 10.00	Highly Weathered Rock of Very Weak in Strength
	10.0 to 15.00	Highly Weathered Rock of Weak in Strength
	15.0 to 16.00	Moderately Weathered Rock of Moderately Weak in Strength
	16.00 to 18.00	Highly Weathered Rock of Weak in Strength
	18.00 to 20.00	Highly Weathered Rock of Moderately Weak in Strength

Borehole No.	Depth (meter)	Description
BH- P68	0.00 to 1.50	Clay of High Plasticity
	1.50 to 4.00	Completely Weathered Rock Recovered in Residual Form
	4.00 to 10.00	Highly Weathered Rock of Very Weak in Strength
	10.00 to 14.00	Highly Weathered Rock of Weak in Strength
	14.00 to 16.00	Moderately Weathered Rock of Moderately Weak in Strength
	16.00 to 18.00	Highly Weathered Rock of Weak in Strength
	18.00 to 20.00	Highly Weathered Rock of Moderately Weak in Strength







Borehole No.	Depth (meter)	Description
BH- P69	0.00 to 3.00	Clay of High Plasticity
	3.00 to 4.00	Clay of Medium Plasticity
	4.00 to 6.00	Highly weathered rock of Very weak in strength
	6.00 to 10.00	Highly weathered rock of weak in strength
	10.00 to 16.00	Highly weathered rock of moderately weak in strength
	16.00 to 20.00	Highly weathered rock of moderately strong in strength

Borehole No.	Depth (meter)	Description
BH- P70	0.00 to 1.50	Clay of Medium Plasticity
	1.50 to 4.00	Completely Weathered Rock Recovered in Granular Pieces
	4.00 to 8.00	Highly Weathered Rock of Very Weak in Strength
	8.00 to 12.00	Highly Weathered Rock of Weak in Strength
	12.00 to 16.00	Moderately Weathered Rock of Moderately Weak in Strength
	16.00 to 20.00	Highly Weathered Rock of Weak in Strength

Borehole No.	Depth (meter)	Description
BH- P71	0.00 to 1.50	Clay of High Plasticity
	1.50 to 4.50	Clay of Medium Plasticity
	4.50 to 6.00	Completely Weathered Rock Recovered in Residual Form
	6.00 to 10.00	Highly Weathered Rock of Very Weak in Strength
	10.00 to 15.00	Highly Weathered Rock of Weak in Strength
	15.00 to 20.00	Highly Weathered Rock of Moderately Weak in Strength

S. Naveen



Vishwas Geotech Pvt. Ltd.







Borehole No.	Depth (meter)	Description
BH- P72	0.00 to 3.00	Clay of High Plasticity
	3.00 to 4.00	Completely Weathered Rock Recovered in Residual Form
	4.00 to 5.00	Completely Weathered Rock Recovered in Granular Pieces
	5.00 to 10.00	Highly Weathered Rock of Very Weak in Strength
	10.00 to 15.00	Highly Weathered Rock of Weak in Strength
	15.00 to 16.00	Moderately Weathered Rock of Moderately Weak in Strength
	16.00 to 18.00	Highly Weathered Rock of Weak in Strength
	18.00 to 20.00	Highly Weathered Rock of Moderately Weak in Strength

Borehole No.	Depth (meter)	Description
BH- P73	0.00 to 3.00	Clay of High Plasticity
	3.00 to 5.00	Completely Weathered Rock Recovered in Granular Pieces
	5.00 to 10.00	Highly Weathered Rock of Very Weak in Strength
	10.00 to 15.00	Highly Weathered Rock of Weak in Strength
	15.00 to 16.00	Highly Weathered Rock of Moderately Weak in Strength
	16.00 to 20.00	Highly Weathered Rock of Weak in Strength

Borehole No.	Depth (meter)	Description
BH- P74	0.00 to 1.50	Clay of Medium Plasticity
	1.50 to 4.00	Completely Weathered Rock Recovered in Granular Pieces
	4.00 to 8.00	Highly Weathered Rock of Very Weak in Strength
	8.00 to 12.00	Highly Weathered Rock of Weak in Strength
	12.00 to 16.00	Moderately Weathered Rock of Moderately Weak in Strength
	16.00 to 20.00	Highly Weathered Rock of Weak in Strength





Borehole No.	Depth (meter)	Description
BH- P75	0.00 to 1.50	Clay of High Plasticity
	1.50 to 3.00	Clay of Medium Plasticity
	3.00 to 5.00	Completely Weathered Rock Recovered in Residual Form
	5.00 to 10.00	Highly Weathered Rock of Very Weak in Strength
	10.00 to 15.00	Highly Weathered Rock of Weak in Strength
	15.00 to 20.00	Highly Weathered Rock of Moderately Weak in Strength

Borehole No.	Depth (meter)	Description
BH- P76	0.00 to 1.50	Clay of High Plasticity
	1.50 to 2.00	Clay of Medium Plasticity
	2.00 to 4.00	Completely Weathered Rock Recovered in Granular Pieces
	4.00 to 6.00	Completely Weathered Rock Recovered in Granular Pieces
	6.00 to 12.00	Highly Weathered Rock of Very Weak in Strength
	12.00 to 18.00	Highly Weathered Rock of Weak in Strength
	18.00 to 20.00	Moderately Weathered Rock of Moderately Weak in Strength

Borehole No.	Depth (meter)	Description
BH- P77	0.00 to 1.50	Clay of High Plasticity
	1.50 to 4.00	Completely Weathered Rock Recovered in Residual Form
	4.00 to 10.00	Highly Weathered Rock of Very Weak in Strength
	10.00 to 16.00	Highly Weathered Rock of Weak in Strength
	16.0 to 20.00	Highly Weathered Rock of Moderately Weak in Strength







Borehole No.	Depth (meter)	Description
BH- P78	0.00 to 3.00	Clay of High Plasticity
	3.00 to 5.00	Completely Weathered Rock Recovered in Residual Form
	5.00 to 10.00	Highly Weathered Rock of Very Weak in Strength
	10.00 to 15.00	Highly Weathered Rock of Weak in Strength
	15.00 to 16.00	Moderately Weathered Rock of Moderately Weak in Strength
	16.00 to 18.00	Highly Weathered Rock of Weak in Strength
	18.00 to 20.00	Highly Weathered Rock of Moderately Weak in Strength

Borehole No.	Depth (meter)	Description
BH- P79	0.00 to 1.50	Clay of High Plasticity
	1.50 to 3.00	Clay of Medium Plasticity
	3.00 to 4.00	Completely Weathered Rock Recovered in Residual Form
	4.00 to 8.00	Highly Weathered Rock of Very Weak in Strength
	8.0 to 14.00	Highly Weathered Rock of Weak in Strength
	14.0 to 16.00	Moderately Weathered Rock of Moderately Weak in Strength
	16.00 to 20.00	Highly Weathered Rock of Moderately Weak in Strength

S. Naveen



Vishwas Geotech Pvt. Ltd.







Borehole No.	Depth (meter)	Description
BH- P80	0.00 to 1.50	Clay of High Plasticity
	1.50 to 4.50	Clay of Medium Plasticity
	4.50 to 6.00	Completely Weathered Rock Recovered in Residual Form
	6.00 to 15.00	Highly Weathered Rock of Weak in Strength
	15.00 to 20.00	Highly Weathered Rock of Moderately Weak in Strength

Borehole No.	Depth (meter)	Description
BH- P81	0.00 to 3.00	Clay of High Plasticity
	3.00 to 5.00	Completely Weathered Rock Recovered in Granular Pieces
	5.00 to 10.00	Highly Weathered Rock of Very Weak in Strength
	10.00 to 15.00	Highly Weathered Rock of Weak in Strength
	15.00 to 16.00	Highly Weathered Rock of Moderately Weak in Strength
	16.00 to 20.00	Highly Weathered Rock of Weak in Strength

Borehole No.	Depth (meter)	Description
BH- P82	0.00 to 1.50	Clay of High Plasticity
	1.50 to 4.00	Completely Weathered Rock Recovered in Residual Form
	4.00 to 5.00	Completely Weathered Rock Recovered in Granular Pieces
	5.00 to 10.00	Highly Weathered Rock of Very Weak in Strength
	10.00 to 15.00	Highly Weathered Rock of Weak in Strength
	15.00 to 16.00	Moderately Weathered Rock of Moderately Weak in Strength
	16.00 to 18.00	Highly Weathered Rock of Weak in Strength
	18.00 to 20.00	Highly Weathered Rock of Moderately Weak in Strength





Borehole No.	Depth (meter)	Description
BH- P83	0.00 to 1.50	Clay of High Plasticity
	1.50 to 3.00	Clay of Medium Plasticity
	3.00 to 4.00	Completely Weathered Rock Recovered in Residual Form
	4.00 to 8.00	Highly Weathered Rock of Very Weak in Strength
	8.00 to 14.00	Highly Weathered Rock of Weak in Strength
	14.00 to 16.00	Moderately Weathered Rock of Moderately Weak in Strength
	16.00 to 20.00	Highly Weathered Rock of Moderately Weak in Strength

Borehole No.	Depth (meter)	Description
BH- P84	0.00 to 3.00	Clay of High Plasticity
	3.00 to 5.00	Completely Weathered Rock Recovered in Residual Form
	5.00 to 10.00	Highly Weathered Rock of Very Weak in Strength
	10.00 to 15.00	Highly Weathered Rock of Weak in Strength
	15.00 to 16.00	Moderately Weathered Rock of Moderately Weak in Strength
	16.00 to 18.00	Highly Weathered Rock of Weak in Strength
	18.00 to 20.00	Highly Weathered Rock of Moderately Weak in Strength

Borehole No.	Depth (meter)	Description
BH- P85	0.00 to 1.50	Clay of High Plasticity
	1.50 to 4.00	Completely Weathered Rock Recovered in Residual Form
	4.00 to 10.00	Highly Weathered Rock of Very Weak in Strength
	10.00 to 16.00	Highly Weathered Rock of Weak in Strength
	16.00 to 20.00	Highly Weathered Rock of Moderately Weak in Strength





Borehole No.	Depth (meter)	Description
BH- P86	0.00 to 1.50	Clay of High Plasticity
	1.50 to 2.00	Clay of Medium Plasticity
	2.00 to 4.00	Completely Weathered Rock Recovered in Residual Form
	4.00 to 6.00	Completely Weathered Rock Recovered in Granular Pieces
	6.00 to 12.00	Highly Weathered Rock of Very Weak in Strength
	12.00 to 18.00	Highly Weathered Rock of Weak in Strength
	18.00 to 20.00	Moderately Weathered Rock of Moderately Weak in Strength

Borehole No.	Depth (meter)	Description
BH- P87	0.00 to 3.00	Clay of High Plasticity
	3.00 to 4.00	Completely Weathered Rock Recovered in Residual Form
	4.00 to 5.00	Completely Weathered Rock Recovered in Granular Pieces
	5.00 to 10.00	Highly Weathered Rock of Very Weak in Strength
	10.00 to 14.00	Highly Weathered Rock of Weak in Strength
	14.00 to 20.00	Highly Weathered Rock of Moderately Weak in Strength

Borehole No.	Depth (meter)	Description
BH- P88	0.00 to 1.50	Clay of High Plasticity
	1.50 to 3.00	Clay of Medium Plasticity
	3.00 to 5.00	Completely Weathered Rock Recovered in Residual Form
	5.00 to 10.00	Highly Weathered Rock of Very Weak in Strength
	10.00 to 15.00	Highly Weathered Rock of Weak in Strength
	15.00 to 20.00	Highly Weathered Rock of Moderately Weak in Strength

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Borehole No.	Depth (meter)	Description
BH- P89	0.00 to 1.50	Clay of Medium Plasticity
	1.50 to 4.00	Completely Weathered Rock Recovered in Granular Pieces
	4.00 to 8.00	Highly Weathered Rock of Very Weak in Strength
	8.00 to 12.00	Highly Weathered Rock of Weak in Strength
	12.00 to 16.00	Moderately Weathered Rock of Moderately Weak in Strength
	16.00 to 20.00	Highly Weathered Rock of Weak in Strength

Borehole No.	Depth (meter)	Description
BH- P90	0.00 to 3.00	Clay of High Plasticity
	3.00 to 5.00	Completely Weathered Rock Recovered in Granular Pieces
	5.00 to 10.00	Highly Weathered Rock of Very Weak in Strength
	10.00 to 15.00	Highly Weathered Rock of Weak in Strength
	15.00 to 16.00	Highly Weathered Rock of Moderately Weak in Strength
	16.00 to 20.00	Highly Weathered Rock of Weak in Strength

Borehole No.	Depth (meter)	Description
BH- P91	0.00 to 3.00	Clay of High Plasticity
	3.00 to 4.00	Completely Weathered Rock Recovered in Residual Form
	4.00 to 5.00	Completely Weathered Rock Recovered in Granular Pieces
	5.00 to 10.00	Highly Weathered Rock of Very Weak in Strength
	10.00 to 15.00	Highly Weathered Rock of Weak in Strength
	15.00 to 16.00	Moderately Weathered Rock of Moderately Weak in Strength
	16.00 to 18.00	Highly Weathered Rock of Weak in Strength
	18.00 to 20.00	Highly Weathered Rock of Moderately Weak in Strength

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Borehole No.	Depth (meter)	Description
BH- P92	0.00 to 3.00	Clay of High Plasticity
	3.00 to 5.00	Completely Weathered Rock Recovered in Granular Pieces
	5.00 to 10.00	Highly Weathered Rock of Very Weak in Strength
	10.00 to 15.00	Highly Weathered Rock of Weak in Strength
	15.00 to 16.00	Highly Weathered Rock of Moderately Weak in Strength
	16.00 to 20.00	Highly Weathered Rock of Weak in Strength

Borehole No.	Depth (meter)	Description
BH- P93	0.00 to 1.50	Clay of High Plasticity
	1.50 to 4.00	Completely Weathered Rock Recovered in Residual Form
	4.00 to 5.00	Completely Weathered Rock Recovered in Granular Pieces
	5.00 to 10.00	Highly Weathered Rock of Very Weak in Strength
	10.00 to 15.00	Highly Weathered Rock of Weak in Strength
	15.00 to 16.00	Moderately Weathered Rock of Moderately Weak in Strength
	16.00 to 18.00	Highly Weathered Rock of Weak in Strength
	18.00 to 20.00	Highly Weathered Rock of Moderately Weak in Strength

Borehole No.	Depth (meter)	Description
BH- P94	0.00 to 1.50	Clay of High Plasticity
	1.50 to 3.00	Clay of Medium Plasticity
	3.00 to 4.00	Completely Weathered Rock Recovered in Residual Form
	4.00 to 8.00	Highly Weathered Rock of Very Weak in Strength
	8.00 to 14.00	Highly Weathered Rock of Weak in Strength
	14.00 to 16.00	Moderately Weathered Rock of Moderately Weak in Strength
	16.00 to 20.00	Highly Weathered Rock of Moderately Weak in Strength





Borehole No.	Depth (meter)	Description
BH- P95	0.00 to 3.00	Clay of High Plasticity
	3.00 to 5.00	Completely Weathered Rock Recovered in Residual Form
	5.00 to 10.00	Highly Weathered Rock of Very Weak in Strength
	10.00 to 15.00	Highly Weathered Rock of Weak in Strength
	15.00 to 16.00	Moderately Weathered Rock of Moderately Weak in Strength
	16.00 to 18.00	Highly Weathered Rock of Weak in Strength
	18.00 to 20.00	Highly Weathered Rock of Moderately Weak in Strength

Borehole No.	Depth (meter)	Description
BH- P96	0.00 to 1.50	Clay of High Plasticity
	1.50 to 4.00	Completely Weathered Rock Recovered in Residual Form
	4.00 to 10.00	Highly Weathered Rock of Very Weak in Strength
	10.00 to 16.00	Highly Weathered Rock of Weak in Strength
	16.00 to 20.00	Highly Weathered Rock of Moderately Weak in Strength

Borehole No.	Depth (meter)	Description
BH- P97	0.00 to 4.50	Clay of High Plasticity
	4.50 to 7.00	Completely Weathered Rock Recovered in Residual Form
	7.00 to 8.00	Completely Weathered Rock Recovered in Granular Pieces
	8.00 to 10.00	Highly Weathered Rock of Very Weak in Strength
	10.00 to 11.00	Moderately Weathered Rock of Weak in Strength
	11.00 to 13.00	Highly Weathered Rock of Weak in Strength
	13.00 to 16.00	Highly Weathered Rock of Moderately Weak in Strength
	16.00 to 18.00	Moderately Weathered Rock of Moderately Weak in Strength
	18.00 to 20.00	Highly Weathered Rock of Moderately Weak in Strength

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Borehole No.	Depth (meter)	Description
BH- P98	0.00 to 1.50	Clay of High Plasticity
	1.50 to 4.50	Clay of Medium Plasticity
	4.50 to 6.00	Completely Weathered Rock Recovered in Residual Form
	6.00 to 10.00	Highly Weathered Rock of Very Weak in Strength
	10.00 to 15.00	Highly Weathered Rock of Weak in Strength
	15.00 to 20.00	Highly Weathered Rock of Moderately Weak in Strength

Borehole No.	Depth (meter)	Description
BH- P99	0.00 to 1.50	Clay of High Plasticity
	1.50 to 2.00	Clay of Medium Plasticity
	2.00 to 4.00	Completely Weathered Rock Recovered in Residual Form
	4.00 to 6.00	Completely Weathered Rock Recovered in Granular Pieces
	6.00 to 12.00	Highly Weathered Rock of Very Weak in Strength
	12.00 to 18.00	Highly Weathered Rock of Weak in Strength
	18.00 to 20.00	Moderately Weathered Rock of Moderately Weak in Strength

Borehole No.	Depth (meter)	Description
BH- P100	0.00 to 3.00	Clay of High Plasticity
	3.00 to 4.00	Completely Weathered Rock Recovered in Residual Form
	4.00 to 5.00	Completely Weathered Rock Recovered in Granular Pieces
	5.00 to 10.00	Highly Weathered Rock of Very Weak in Strength
	10.00 to 14.00	Highly Weathered Rock of Weak in Strength
	14.00 to 20.00	Highly Weathered Rock of Moderately Weak in Strength





Borehole No.	Depth (meter)	Description
BH- P101	0.00 to 1.50	Clay of Medium Plasticity
	1.50 to 4.00	Completely Weathered Rock Recovered in Granular Pieces
	4.00 to 8.00	Highly Weathered Rock of Very Weak in Strength
	8.00 to 12.00	Highly Weathered Rock of Weak in Strength
	12.00 to 16.00	Moderately Weathered Rock of Moderately Weak in Strength
	16.00 to 20.00	Highly Weathered Rock of Weak in Strength

Borehole No.	Depth (meter)	Description
BH- P102	0.00 to 1.50	Clay of High Plasticity
	1.50 to 4.50	Clay of Medium Plasticity
	4.50 to 6.00	Completely Weathered Rock Recovered in Residual Form
	6.00 to 10.00	Highly Weathered Rock of Very Weak in Strength
	10.00 to 15.00	Highly Weathered Rock of Weak in Strength
	15.00 to 20.00	Highly Weathered Rock of Moderately Weak in Strength

Borehole No.	Depth (meter)	Description
BH- P103	0.00 to 3.00	Clay of High Plasticity
	3.00 to 4.00	Completely Weathered Rock Recovered in Residual Form
	4.00 to 5.00	Completely Weathered Rock Recovered in Granular Pieces
	5.00 to 10.00	Highly Weathered Rock of Very Weak in Strength
	10.00 to 15.00	Highly Weathered Rock of Weak in Strength
	15.00 to 16.00	Moderately Weathered Rock of Moderately Weak in Strength
	16.00 to 18.00	Highly Weathered Rock of Weak in Strength
	18.00 to 20.00	Highly Weathered Rock of Moderately Weak in Strength





Borehole No.	Depth (meter)	Description
BH- P104	0.00 to 3.00	Clay of High Plasticity
	3.00 to 5.00	Completely Weathered Rock Recovered in Granular Pieces
	5.00 to 10.00	Highly Weathered Rock of Very Weak in Strength
	10.00 to 15.00	Highly Weathered Rock of Weak in Strength
	15.00 to 16.00	Highly Weathered Rock of Moderately Weak in Strength
	16.00 to 20.00	Highly Weathered Rock of Weak in Strength

Borehole No.	Depth (meter)	Description
BH- P105	0.00 to 1.50	Clay of High Plasticity
	1.50 to 3.00	Clay of Medium Plasticity
	3.00 to 5.00	Completely Weathered Rock Recovered in Residual Form
	5.00 to 10.00	Highly Weathered Rock of Very Weak in Strength
	10.00 to 15.00	Highly Weathered Rock of Weak in Strength
	15.00 to 20.00	Highly Weathered Rock of Moderately Weak in Strength

Borehole No.	Depth (meter)	Description
BH- P106	0.00 to 1.50	Clay of Medium Plasticity
	1.50 to 4.00	Completely Weathered Rock Recovered in Granular Pieces
	4.00 to 8.00	Highly Weathered Rock of Very Weak in Strength
	8.00 to 12.00	Highly Weathered Rock of Weak in Strength
	12.00 to 16.00	Moderately Weathered Rock of Moderately Weak in Strength
	16.00 to 20.00	Highly Weathered Rock of Weak in Strength

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Borehole No.	Depth (meter)	Description
BH- P107	0.00 to 1.50	Clay of High Plasticity
	1.50 to 2.00	Clay of Medium Plasticity
	2.00 to 4.00	Completely Weathered Rock Recovered in Residual Form
	4.00 to 6.00	Completely Weathered Rock Recovered in Granular Pieces
	6.00 to 10.00	Highly Weathered Rock of Very Weak in Strength
	10.00 to 15.00	Highly Weathered Rock of Weak in Strength
	15.00 to 16.00	Moderately Weathered Rock of Moderately Weak in Strength
	16.00 to 18.00	Highly Weathered Rock of Weak in Strength
	18.00 to 20.00	Highly Weathered Rock of Moderately Weak in Strength

Borehole No.	Depth (meter)	Description
BH- P108	0.00 to 1.50	Clay of High Plasticity
	1.50 to 4.00	Completely Weathered Rock Recovered in Residual Form
	4.00 to 10.00	Highly Weathered Rock of Very Weak in Strength
	10.00 to 14.00	Highly Weathered Rock of Weak in Strength
	14.00 to 16.00	Moderately Weathered Rock of Moderately Weak in Strength
	16.00 to 18.00	Highly Weathered Rock of Weak in Strength
	18.00 to 20.00	Highly Weathered Rock of Moderately Weak in Strength

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Borehole No.	Depth (meter)	Description
BH- P109	0.00 to 3.00	Clay of High Plasticity
	3.00 to 4.50	Clay of Medium Plasticity
	4.00 to 6.00	Completely Weathered Rock Recovered in Granular Pieces
	6.00 to 10.00	Highly Weathered Rock of Very Weak in Strength
	10.00 to 16.00	Highly Weathered Rock of Weak in Strength
	16.00 to 20.00	Highly Weathered Rock of Moderately Weak in Strength

Borehole No.	Depth (meter)	Description
BH-A2	0.00 to 3.00	Clay of High Plasticity
	3.00 to 4.00	Completely Weathered Rock Recovered in Residual Form
	4.00 to 5.00	Completely Weathered Rock Recovered in Granular Pieces
	5.00 to 10.00	Highly Weathered Rock of Very Weak in Strength
	10.00 to 15.00	Highly Weathered Rock of Weak in Strength
	15.00 to 16.00	Moderately Weathered Rock of Moderately Weak in Strength
	16.00 to 18.00	Highly Weathered Rock of Weak in Strength
	18.00 to 20.00	Highly Weathered Rock of Moderately Weak in Strength

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## 8.1 Summary

Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-A1				
Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	781.00	45.00
	14.00	14.00	901.00	49.00
	16.00	16.00	975.00	51.00
1.20	12.00	12.00	1124.00	65.00
	14.00	14.00	1297.00	70.00
	16.00	16.00	1403.00	73.00

Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P1				
Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	755.00	44.00
	14.00	14.00	871.00	48.00
	16.00	16.00	959.00	50.00
1.20	12.00	12.00	1087.00	64.00
	14.00	14.00	1254.00	69.00
	16.00	16.00	1381.00	72.00





**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P2**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	733.00	44.00
	14.00	14.00	813.00	46.00
	16.00	16.00	928.00	49.00
1.20	12.00	12.00	1055.00	63.00
	14.00	14.00	1171.00	66.00
	16.00	16.00	1336.00	71.00

**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P3**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	699.00	43.00
	14.00	14.00	827.00	46.00
	16.00	16.00	913.00	49.00
1.20	12.00	12.00	1006.00	61.00
	14.00	14.00	1191.00	67.00
	16.00	16.00	1314.00	70.00





**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P4**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	757.00	44.00
	14.00	14.00	841.00	47.00
	16.00	16.00	928.00	49.00
1.20	12.00	12.00	1090.00	64.00
	14.00	14.00	1212.00	67.00
	16.00	16.00	1336.00	71.00

**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P5**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	729.00	44.00
	14.00	14.00	803.00	46.00
	16.00	16.00	901.00	49.00
1.20	12.00	12.00	1049.00	63.00
	14.00	14.00	1156.00	66.00
	16.00	16.00	1297.00	70.00





**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P6**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	755.00	44.00
	14.00	14.00	815.00	46.00
	16.00	16.00	905.00	49.00
1.20	12.00	12.00	1087.00	64.00
	14.00	14.00	1174.00	66.00
	16.00	16.00	1303.00	70.00

**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P7**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	743.00	44.00
	14.00	14.00	804.00	46.00
	16.00	16.00	915.00	49.00
1.20	12.00	12.00	1070.00	63.00
	14.00	14.00	1157.00	66.00
	16.00	16.00	1318.00	70.00





**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P8**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	729.00	44.00
	14.00	14.00	803.00	46.00
	16.00	16.00	889.00	48.00
1.20	12.00	12.00	1049.00	63.00
	14.00	14.00	1156.00	66.00
	16.00	16.00	1280.00	69.00

**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P9**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	712.00	43.00
	14.00	14.00	815.00	46.00
	16.00	16.00	862.00	47.00
1.20	12.00	12.00	1025.00	62.00
	14.00	14.00	1174.00	66.00
	16.00	16.00	1241.00	68.00





**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P10**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	725.00	43.00
	14.00	14.00	835.00	47.00
	16.00	16.00	872.00	48.00
1.20	12.00	12.00	1044.00	62.00
	14.00	14.00	1202.00	67.00
	16.00	16.00	1256.00	69.00

**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P11**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	491.00	35.00
	14.00	14.00	669.00	42.00
	16.00	16.00	743.00	44.00
1.20	12.00	12.00	706.00	51.00
	14.00	14.00	963.00	60.00
	16.00	16.00	1070.00	63.00





**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P12**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	476.00	35.00
	14.00	14.00	672.00	42.00
	16.00	16.00	734.00	44.00
1.20	12.00	12.00	686.00	50.00
	14.00	14.00	967.00	60.00
	16.00	16.00	1050.00	63.00

**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P13**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	775.00	45.00
	14.00	14.00	845.00	47.00
	16.00	16.00	909.00	49.00
1.20	12.00	12.00	1116.00	65.00
	14.00	14.00	1217.00	68.00
	16.00	16.00	1308.00	70.00





**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P14**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	341.00	29.00
	14.00	14.00	556.00	38.00
	16.00	16.00	720.00	43.00
1.20	12.00	12.00	491.00	42.00
	14.00	14.00	800.00	54.00
	16.00	16.00	1036.00	62.00

**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P15**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	329.00	29.00
	14.00	14.00	515.00	36.00
	16.00	16.00	682.00	42.00
1.20	12.00	12.00	474.00	41.00
	14.00	14.00	742.00	52.00
	16.00	16.00	982.00	61.00





**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P16**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	323.00	29.00
	14.00	14.00	423.00	33.00
	16.00	16.00	551.00	38.00
1.20	12.00	12.00	465.00	41.00
	14.00	14.00	608.00	47.00
	16.00	16.00	793.00	54.00

**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P17**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	412.00	32.00
	14.00	14.00	749.00	44.00
	16.00	16.00	792.00	45.00
1.20	12.00	12.00	593.00	47.00
	14.00	14.00	1079.00	64.00
	16.00	16.00	1141.00	65.00





**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P18**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	779.00	45.00
	14.00	14.00	844.00	47.00
	16.00	16.00	910.00	49.00
1.20	12.00	12.00	1122.00	65.00
	14.00	14.00	1215.00	68.00
	16.00	16.00	1310.00	70.00

**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P19**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	797.00	46.00
	14.00	14.00	866.00	48.00
	16.00	16.00	928.00	49.00
1.20	12.00	12.00	1148.00	66.00
	14.00	14.00	1247.00	68.00
	16.00	16.00	1336.00	71.00





**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P20**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	790.00	45.00
	14.00	14.00	854.00	47.00
	16.00	16.00	918.00	49.00
1.20	12.00	12.00	1137.00	65.00
	14.00	14.00	1230.00	68.00
	16.00	16.00	1321.00	71.00

**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P21**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	775.00	45.00
	14.00	14.00	843.00	47.00
	16.00	16.00	916.00	49.00
1.20	12.00	12.00	1116.00	65.00
	14.00	14.00	1213.00	68.00
	16.00	16.00	1320.00	70.00





**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on  
Pile Soil Interaction for BH-P22**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	771.00	45.00
	14.00	14.00	854.00	47.00
	16.00	16.00	913.00	49.00
1.20	12.00	12.00	1111.00	65.00
	14.00	14.00	1230.00	68.00
	16.00	16.00	1314.00	70.00

**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on  
Pile Soil Interaction for BH-P23**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	733.00	44.00
	14.00	14.00	760.00	44.00
	16.00	16.00	775.00	45.00
1.20	12.00	12.00	1055.00	63.00
	14.00	14.00	1094.00	64.00
	16.00	16.00	1116.00	65.00





**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P24**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	707.00	43.00
	14.00	14.00	735.00	44.00
	16.00	16.00	775.00	45.00
1.20	12.00	12.00	1017.00	62.00
	14.00	14.00	1059.00	63.00
	16.00	16.00	1116.00	65.00

**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P25**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	700.00	43.00
	14.00	14.00	734.00	44.00
	16.00	16.00	766.00	45.00
1.20	12.00	12.00	1008.00	61.00
	14.00	14.00	1057.00	63.00
	16.00	16.00	1103.00	64.00





**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P26**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	491.00	35.00
	14.00	14.00	656.00	41.00
	16.00	16.00	699.00	43.00
1.20	12.00	12.00	706.00	51.00
	14.00	14.00	945.00	59.00
	16.00	16.00	1006.00	61.00

**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P27**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	688.00	42.00
	14.00	14.00	717.00	43.00
	16.00	16.00	743.00	44.00
1.20	12.00	12.00	991.00	61.00
	14.00	14.00	1032.00	62.00
	16.00	16.00	1070.00	63.00





**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P28**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	441.00	34.00
	14.00	14.00	753.00	44.00
	16.00	16.00	777.00	45.00
1.20	12.00	12.00	635.00	48.00
	14.00	14.00	1085.00	64.00
	16.00	16.00	1118.00	65.00

**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P29**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	134.00	18.00
	14.00	14.00	263.00	26.00
	16.00	16.00	470.00	35.00
1.20	12.00	12.00	192.00	26.00
	14.00	14.00	379.00	37.00
	16.00	16.00	676.00	50.00





**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on  
Pile Soil Interaction for BH-P30**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	151.00	19.00
	14.00	14.00	221.00	23.00
	16.00	16.00	502.00	36.00
1.20	12.00	12.00	218.00	27.00
	14.00	14.00	318.00	34.00
	16.00	16.00	723.00	52.00





**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on  
Pile Soil Interaction for BH-P31**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	135.00	18.00
	14.00	14.00	272.00	27.00
	16.00	16.00	506.00	36.00
1.20	12.00	12.00	194.00	26.00
	14.00	14.00	392.00	38.00
	16.00	16.00	729.00	52.00

**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on  
Pile Soil Interaction for BH-P32**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	713.00	43.00
	14.00	14.00	757.00	44.00
	16.00	16.00	782.00	45.00
1.20	12.00	12.00	1027.00	62.00
	14.00	14.00	1090.00	64.00
	16.00	16.00	1106.00	65.00





**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P33**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	717.00	43.00
	14.00	14.00	747.00	44.00
	16.00	16.00	786.00	45.00
1.20	12.00	12.00	1032.00	62.00
	14.00	14.00	1075.00	63.00
	16.00	16.00	1131.00	65.00

**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P34**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	771.00	45.00
	14.00	14.00	854.00	47.00
	16.00	16.00	913.00	49.00
1.20	12.00	12.00	1111.00	65.00
	14.00	14.00	1230.00	68.00
	16.00	16.00	1314.00	70.00





**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P35**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	106.00	16.00
	14.00	14.00	271.00	24.00
	16.00	16.00	504.00	36.00
1.20	12.00	12.00	153.00	23.00
	14.00	14.00	390.00	37.00
	16.00	16.00	725.00	52.00

**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P36**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	97.00	15.00
	14.00	14.00	265.00	26.00
	16.00	16.00	449.00	34.00
1.20	12.00	12.00	139.00	22.00
	14.00	14.00	381.00	37.00
	16.00	16.00	646.00	49.00





**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P37**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	437.00	33.00
	14.00	14.00	552.00	38.00
	16.00	16.00	648.00	41.00
1.20	12.00	12.00	629.00	48.00
	14.00	14.00	795.00	54.00
	16.00	16.00	933.00	59.00

**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P38**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	348.00	30.00
	14.00	14.00	535.00	37.00
	16.00	16.00	661.00	41.00
1.20	12.00	12.00	501.00	43.00
	14.00	14.00	770.00	53.00
	16.00	16.00	952.00	60.00





**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P39**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	508.00	36.00
	14.00	14.00	666.00	42.00
	16.00	16.00	743.00	44.00
1.20	12.00	12.00	731.00	52.00
	14.00	14.00	960.00	60.00
	16.00	16.00	1070.00	63.00

**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P40**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	458.00	34.00
	14.00	14.00	653.00	31.00
	16.00	16.00	757.00	44.00
1.20	12.00	12.00	659.00	49.00
	14.00	14.00	941.00	59.00
	16.00	16.00	1090.00	64.00





**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P41**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	492.00	36.00
	14.00	14.00	666.00	42.00
	16.00	16.00	747.00	44.00
1.20	12.00	12.00	708.00	51.00
	14.00	14.00	960.00	60.00
	16.00	16.00	1075.00	63.00

**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P42**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	261.00	25.00
	14.00	14.00	480.00	35.00
	16.00	16.00	541.00	37.00
1.20	12.00	12.00	375.00	37.00
	14.00	14.00	691.00	50.00
	16.00	16.00	780.00	54.00





**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P43**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	230.00	24.00
	14.00	14.00	394.00	32.00
	16.00	16.00	575.00	39.00
1.20	12.00	12.00	331.00	34.00
	14.00	14.00	567.00	46.00
	16.00	16.00	828.00	55.00

**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P44**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	243.00	25.00
	14.00	14.00	528.00	37.00
	16.00	16.00	625.00	40.00
1.20	12.00	12.00	350.00	35.00
	14.00	14.00	750.00	53.00
	16.00	16.00	900.00	58.00





**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P45**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	323.00	29.00
	14.00	14.00	442.00	34.00
	16.00	16.00	532.00	37.00
1.20	12.00	12.00	465.00	41.00
	14.00	14.00	637.00	48.00
	16.00	16.00	767.00	53.00

**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P46**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	173.00	20.00
	14.00	14.00	396.00	32.00
	16.00	16.00	530.00	37.00
1.20	12.00	12.00	249.00	30.00
	14.00	14.00	571.00	46.00
	16.00	16.00	763.00	53.00





**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P47**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	177.00	21.00
	14.00	14.00	412.00	32.00
	16.00	16.00	524.00	37.00
1.20	12.00	12.00	254.00	30.00
	14.00	14.00	593.00	47.00
	16.00	16.00	755.00	53.00

**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P48**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	323.00	29.00
	14.00	14.00	442.00	34.00
	16.00	16.00	532.00	37.00
1.20	12.00	12.00	465.00	41.00
	14.00	14.00	637.00	48.00
	16.00	16.00	767.00	53.00





**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile  
Based on Pile Soil Interaction for BH-P49**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	18.00	18.00	263.00	30.00
	20.00	20.00	302.00	32.00
	22.00	22.00	328.00	33.00
1.20	18.00	18.00	378.00	43.00
	20.00	20.00	435.00	46.00
	22.00	22.00	472.00	48.00

**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile  
Based on Pile Soil Interaction for BH-P50**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	18.00	18.00	254.00	29.00
	20.00	20.00	295.00	32.00
	22.00	22.00	343.00	34.00
1.20	18.00	18.00	365.00	42.00
	20.00	20.00	424.00	45.00
	22.00	22.00	494.00	49.00





Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P51				
Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	18.00	18.00	257.00	29.00
	20.00	20.00	296.00	32.00
	22.00	22.00	342.00	34.00
1.20	18.00	18.00	370.00	42.00
	20.00	20.00	426.00	46.00
	22.00	22.00	493.00	49.00

Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P52				
Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	18.00	18.00	166.00	23.00
	20.00	20.00	229.00	28.00
	22.00	22.00	297.00	32.00
1.20	18.00	18.00	239.00	34.00
	20.00	20.00	330.00	40.00
	22.00	22.00	427.00	46.00





Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P53				
Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	18.00	18.00	197.00	25.00
	20.00	20.00	216.00	27.00
	22.00	22.00	266.00	30.00
1.20	18.00	18.00	284.00	37.00
	20.00	20.00	310.00	39.00
	22.00	22.00	384.00	43.00

Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P54				
Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	18.00	18.00	164.00	23.00
	20.00	20.00	213.00	27.00
	22.00	22.00	282.00	31.00
1.20	18.00	18.00	237.00	33.00
	20.00	20.00	306.00	38.00
	22.00	22.00	406.00	44.00





Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P55				
Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	263.00	105.00
	14.00	14.00	346.00	138.00
	16.00	16.00	424.00	170.00
1.20	12.00	12.00	379.00	152.00
	14.00	14.00	498.00	199.00
	16.00	16.00	611.00	244.00

Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P56				
Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	275.00	110.00
	14.00	14.00	361.00	145.00
	16.00	16.00	452.00	181.00
1.20	12.00	12.00	396.00	158.00
	14.00	14.00	520.00	208.00
	16.00	16.00	651.00	260.00







**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile  
Based on Pile Soil Interaction for BH-P57**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	216.00	86.00
	14.00	14.00	291.00	116.00
	16.00	16.00	369.00	148.00
1.20	12.00	12.00	311.00	124.00
	14.00	14.00	419.00	167.00
	16.00	16.00	532.00	213.00

**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile  
Based on Pile Soil Interaction for BH-P58**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	263.00	105.00
	14.00	14.00	350.00	140.00
	16.00	16.00	428.00	171.00
1.20	12.00	12.00	379.00	152.00
	14.00	14.00	503.00	201.00
	16.00	16.00	617.00	247.00





Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P59				
Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	259.00	104.00
	14.00	14.00	326.00	130.00
	16.00	16.00	393.00	157.00
1.20	12.00	12.00	373.00	149.00
	14.00	14.00	470.00	188.00
	16.00	16.00	566.00	226.00

Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P60				
Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	267.00	107.00
	14.00	14.00	330.00	132.00
	16.00	16.00	397.00	159.00
1.20	12.00	12.00	385.00	154.00
	14.00	14.00	475.00	190.00
	16.00	16.00	571.00	229.00





**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile  
Based on Pile Soil Interaction for BH-P61**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	275.00	110.00
	14.00	14.00	334.00	134.00
	16.00	16.00	397.00	159.00
1.20	12.00	12.00	396.00	158.00
	14.00	14.00	481.00	192.00
	16.00	16.00	571.00	229.00

**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile  
Based on Pile Soil Interaction for BH-P62**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	291.00	116.00
	14.00	14.00	350.00	140.00
	16.00	16.00	409.00	163.00
1.20	12.00	12.00	419.00	167.00
	14.00	14.00	503.00	201.00
	16.00	16.00	588.00	235.00







Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P63				
Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	326.00	130.00
	14.00	14.00	393.00	157.00
	16.00	16.00	459.00	182.00
1.20	12.00	12.00	470.00	188.00
	14.00	14.00	566.00	226.00
	16.00	16.00	656.00	262.00

Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P64				
Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	283.00	113.00
	14.00	14.00	334.00	134.00
	16.00	16.00	393.00	157.00
1.20	12.00	12.00	407.00	163.00
	14.00	14.00	481.00	192.00
	16.00	16.00	566.00	226.00





**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile  
Based on Pile Soil Interaction for BH-P65**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	271.00	108.00
	14.00	14.00	310.00	124.00
	16.00	16.00	350.00	140.00
1.20	12.00	12.00	390.00	156.00
	14.00	14.00	447.00	179.00
	16.00	16.00	503.00	201.00

**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile  
Based on Pile Soil Interaction for BH-P66**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	257.00	103.00
	14.00	14.00	287.00	115.00
	16.00	16.00	327.00	131.00
1.20	12.00	12.00	371.00	148.00
	14.00	14.00	413.00	165.00
	16.00	16.00	471.00	188.00





**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile  
Based on Pile Soil Interaction for BH-P67**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	257.00	103.00
	14.00	14.00	294.00	118.00
	16.00	16.00	341.00	136.00
1.20	12.00	12.00	371.00	148.00
	14.00	14.00	473.00	169.00
	16.00	16.00	491.00	196.00

**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile  
Based on Pile Soil Interaction for BH-P68**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	346.00	138.00
	14.00	14.00	398.00	159.00
	16.00	16.00	545.00	182.00
1.20	12.00	12.00	498.00	199.00
	14.00	14.00	573.00	229.00
	16.00	16.00	654.00	262.00







Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P69				
Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	350.00	140.00
	14.00	14.00	421.00	168.00
	16.00	16.00	492.00	197.00
1.20	12.00	12.00	505.00	202.00
	14.00	14.00	606.00	243.00
	16.00	16.00	708.00	283.00

Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P70				
Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	365.00	146.00
	14.00	14.00	426.00	170.00
	16.00	16.00	492.00	197.00
1.20	12.00	12.00	525.00	210.00
	14.00	14.00	613.00	245.00
	16.00	16.00	709.00	284.00





**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile  
Based on Pile Soil Interaction for BH-P71**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	317.00	127.00
	14.00	14.00	393.00	157.00
	16.00	16.00	465.00	186.00
1.20	12.00	12.00	457.00	183.00
	14.00	14.00	566.00	226.00
	16.00	16.00	669.00	268.00

**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile  
Based on Pile Soil Interaction for BH-P72**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	303.00	121.00
	14.00	14.00	360.00	144.00
	16.00	16.00	421.00	168.00
1.20	12.00	12.00	437.00	175.00
	14.00	14.00	518.00	207.00
	16.00	16.00	606.00	243.00







**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile  
Based on Pile Soil Interaction for BH-P73**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	313.00	125.00
	14.00	14.00	374.00	150.00
	16.00	16.00	435.00	174.00
1.20	12.00	12.00	450.00	180.00
	14.00	14.00	539.00	215.00
	16.00	16.00	627.00	251.00

**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile  
Based on Pile Soil Interaction for BH-P74**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	301.00	121.00
	14.00	14.00	351.00	140.00
	16.00	16.00	401.00	160.00
1.20	12.00	12.00	434.00	174.00
	14.00	14.00	506.00	202.00
	16.00	16.00	578.00	231.00





Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P75				
Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	281.00	112.00
	14.00	14.00	334.00	134.00
	16.00	16.00	388.00	155.00
1.20	12.00	12.00	404.00	162.00
	14.00	14.00	481.00	193.00
	16.00	16.00	559.00	224.00

Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P76				
Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	323.00	129.00
	14.00	14.00	377.00	151.00
	16.00	16.00	431.00	172.00
1.20	12.00	12.00	464.00	186.00
	14.00	14.00	543.00	217.00
	16.00	16.00	620.00	248.00





Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P77				
Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	346.00	138.00
	14.00	14.00	414.00	166.00
	16.00	16.00	482.00	192.00
1.20	12.00	12.00	498.00	199.00
	14.00	14.00	596.00	239.00
	16.00	16.00	695.00	278.00

Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P78				
Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	342.00	137.00
	14.00	14.00	409.00	164.00
	16.00	16.00	477.00	191.00
1.20	12.00	12.00	492.00	197.00
	14.00	14.00	589.00	236.00
	16.00	16.00	686.00	274.00





Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P79				
Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	339.00	136.00
	14.00	14.00	406.00	162.00
	16.00	16.00	473.00	189.00
1.20	12.00	12.00	489.00	196.00
	14.00	14.00	585.00	234.00
	16.00	16.00	681.00	272.00

Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P80				
Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	264.00	106.00
	14.00	14.00	325.00	130.00
	16.00	16.00	385.00	154.00
1.20	12.00	12.00	381.00	152.00
	14.00	14.00	467.00	187.00
	16.00	16.00	554.00	222.00





**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile  
Based on Pile Soil Interaction for BH-P81**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	281.00	112.00
	14.00	14.00	334.00	134.00
	16.00	16.00	388.00	155.00
1.20	12.00	12.00	404.00	162.00
	14.00	14.00	481.00	193.00
	16.00	16.00	559.00	224.00

**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile  
Based on Pile Soil Interaction for BH-P82**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	336.00	135.00
	14.00	14.00	402.00	161.00
	16.00	16.00	468.00	187.00
1.20	12.00	12.00	484.00	194.00
	14.00	14.00	579.00	232.00
	16.00	16.00	674.00	270.00







Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P83				
Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	379.00	151.00
	14.00	14.00	454.00	182.00
	16.00	16.00	530.00	212.00
1.20	12.00	12.00	545.00	218.00
	14.00	14.00	654.00	262.00
	16.00	16.00	763.00	305.00

Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P84				
Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	359.00	144.00
	14.00	14.00	430.00	172.00
	16.00	16.00	501.00	200.00
1.20	12.00	12.00	517.00	207.00
	14.00	14.00	619.00	248.00
	16.00	16.00	721.00	289.00





Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P85				
Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	348.00	139.00
	14.00	14.00	416.00	166.00
	16.00	16.00	485.00	194.00
1.20	12.00	12.00	501.00	200.00
	14.00	14.00	599.00	240.00
	16.00	16.00	698.00	279.00

Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P86				
Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	333.00	133.00
	14.00	14.00	389.00	156.00
	16.00	16.00	445.00	178.00
1.20	12.00	12.00	480.00	192.00
	14.00	14.00	560.00	224.00
	16.00	16.00	641.00	256.00





**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile  
Based on Pile Soil Interaction for BH-P87**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	414.00	166.00
	14.00	14.00	498.00	199.00
	16.00	16.00	581.00	233.00
1.20	12.00	12.00	597.00	239.00
	14.00	14.00	717.00	287.00
	16.00	16.00	837.00	335.00

**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile  
Based on Pile Soil Interaction for BH-P88**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	366.00	146.00
	14.00	14.00	438.00	175.00
	16.00	16.00	511.00	204.00
1.20	12.00	12.00	527.00	211.00
	14.00	14.00	631.00	252.00
	16.00	16.00	735.00	294.00







Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P89				
Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	438.00	175.00
	14.00	14.00	514.00	206.00
	16.00	16.00	590.00	236.00
1.20	12.00	12.00	631.00	253.00
	14.00	14.00	741.00	296.00
	16.00	16.00	850.00	340.00

Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P90				
Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	418.00	167.00
	14.00	14.00	502.00	201.00
	16.00	16.00	583.00	233.00
1.20	12.00	12.00	602.00	241.00
	14.00	14.00	724.00	289.00
	16.00	16.00	839.00	336.00





**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile  
Based on Pile Soil Interaction for BH-P91**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	314.00	126.00
	14.00	14.00	377.00	151.00
	16.00	16.00	440.00	176.00
1.20	12.00	12.00	453.00	181.00
	14.00	14.00	543.00	217.00
	16.00	16.00	634.00	253.00

**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile  
Based on Pile Soil Interaction for BH-P92**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	354.00	141.00
	14.00	14.00	424.00	170.00
	16.00	16.00	495.00	198.00
1.20	12.00	12.00	509.00	204.00
	14.00	14.00	611.00	244.00
	16.00	16.00	713.00	285.00







Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P93				
Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	334.00	134.00
	14.00	14.00	401.00	160.00
	16.00	16.00	471.00	189.00
1.20	12.00	12.00	481.00	192.00
	14.00	14.00	577.00	231.00
	16.00	16.00	679.00	272.00

Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P94				
Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	306.00	123.00
	14.00	14.00	369.00	148.00
	16.00	16.00	428.00	171.00
1.20	12.00	12.00	441.00	177.00
	14.00	14.00	532.00	213.00
	16.00	16.00	617.00	247.00





Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P95				
Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	346.00	138.00
	14.00	14.00	416.00	167.00
	16.00	16.00	479.00	192.00
1.20	12.00	12.00	498.00	199.00
	14.00	14.00	600.00	231.00
	16.00	16.00	690.00	276.00

Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P96				
Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	326.00	130.00
	14.00	14.00	393.00	157.00
	16.00	16.00	459.00	184.00
1.20	12.00	12.00	470.00	188.00
	14.00	14.00	566.00	226.00
	16.00	16.00	661.00	264.00





**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile  
Based on Pile Soil Interaction for BH-P97**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	377.00	151.00
	14.00	14.00	444.00	178.00
	16.00	16.00	511.00	204.00
1.20	12.00	12.00	543.00	217.00
	14.00	14.00	639.00	256.00
	16.00	16.00	735.00	294.00





Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P98				
Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	287.00	115.00
	14.00	14.00	358.00	143.00
	16.00	16.00	424.00	170.00
1.20	12.00	12.00	413.00	165.00
	14.00	14.00	515.00	206.00
	16.00	16.00	611.00	244.00

Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P99				
Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	326.00	130.00
	14.00	14.00	381.00	152.00
	16.00	16.00	440.00	176.00
1.20	12.00	12.00	470.00	188.00
	14.00	14.00	549.00	219.00
	16.00	16.00	634.00	253.00





Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P100				
Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	358.00	143.00
	14.00	14.00	432.00	173.00
	16.00	16.00	503.00	201.00
1.20	12.00	12.00	515.00	206.00
	14.00	14.00	622.00	249.00
	16.00	16.00	724.00	290.00

Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P101				
Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	306.00	123.00
	14.00	14.00	358.00	143.00
	16.00	16.00	409.00	163.00
1.20	12.00	12.00	441.00	177.00
	14.00	14.00	515.00	206.00
	16.00	16.00	588.00	235.00





**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile  
Based on Pile Soil Interaction for BH-P102**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	267.00	107.00
	14.00	14.00	326.00	130.00
	16.00	16.00	385.00	154.00
1.20	12.00	12.00	385.00	154.00
	14.00	14.00	470.00	188.00
	16.00	16.00	554.00	222.00

**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile  
Based on Pile Soil Interaction for BH-P103**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	299.00	119.00
	14.00	14.00	358.00	143.00
	16.00	16.00	416.00	167.00
1.20	12.00	12.00	430.00	172.00
	14.00	14.00	515.00	206.00
	16.00	16.00	600.00	240.00







Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P104				
Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	287.00	115.00
	14.00	14.00	346.00	138.00
	16.00	16.00	401.00	160.00
1.20	12.00	12.00	413.00	165.00
	14.00	14.00	498.00	199.00
	16.00	16.00	577.00	231.00

Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P105				
Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	306.00	123.00
	14.00	14.00	369.00	148.00
	16.00	16.00	428.00	171.00
1.20	12.00	12.00	441.00	177.00
	14.00	14.00	532.00	213.00
	16.00	16.00	617.00	247.00





Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P106				
Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	346.00	138.00
	14.00	14.00	405.00	162.00
	16.00	16.00	464.00	185.00
1.20	12.00	12.00	498.00	199.00
	14.00	14.00	583.00	233.00
	16.00	16.00	668.00	267.00

Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-P107				
Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	350.00	140.00
	14.00	14.00	409.00	163.00
	16.00	16.00	471.00	189.00
1.20	12.00	12.00	503.00	201.00
	14.00	14.00	588.00	235.00
	16.00	16.00	679.00	272.00







**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile  
Based on Pile Soil Interaction for BH-P108**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	310.00	124.00
	14.00	14.00	369.00	148.00
	16.00	16.00	420.00	168.00
1.20	12.00	12.00	447.00	179.00
	14.00	14.00	523.00	213.00
	16.00	16.00	605.00	242.00

**Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile  
Based on Pile Soil Interaction for BH-P109**

Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	354.00	141.00
	14.00	14.00	424.00	170.00
	16.00	16.00	495.00	198.00
1.20	12.00	12.00	509.00	204.00
	14.00	14.00	611.00	244.00
	16.00	16.00	713.00	285.00







Safe load Carrying Capacity of Bored Cast in Situ Concrete Pile Based on Pile Soil Interaction for BH-A2				
Diameter of Pile (meter)	Depth of Pile Below Existing G.L. (meter)	Depth of Pile Below Natural G.L. (meter)	Safe Vertical load Carrying Capacity (t)	Safe Uplift load Carrying Capacity (t)
1.00	12.00	12.00	377.00	151.00
	14.00	14.00	452.00	181.00
	16.00	16.00	526.00	211.00
1.20	12.00	12.00	543.00	217.00
	14.00	14.00	651.00	260.00
	16.00	16.00	758.00	303.00





### 9.1 Conclusion & Recommendations:

- The study of the soil investigation at the site at various depths indicates layers as shown in the general stratifications.
- **Ground water table is encountered at the time of investigation as shown in Borelogs.**
- Any variation in stratification in any of the foundation location shall be studied thoroughly before executing the foundation work.
- P.L.C.C is recommended by considering all the parameters affecting to Rock At the field as well as in the laboratory.
- The P.L.C.C. are worked out for 1000 mm & 1200 mm diameter at various depths are suggested in summary.
- **Pile Vertical & Uplift Load Carrying Capacity should be varified at site before execution of Pile.**

Date-04/05/2026

**For, Vishwas Geotech Pvt. Ltd.**

**Authorised Signatory**

*S. Naveen*

*Vishwas*  
  
Vishwas Geotech Pvt Ltd.





## NOTATIONS

<b>C</b>	Cohesion
<b><math>\phi</math></b>	Angle of internal friction of soil
<b>DS</b>	Disturbed Sample
<b>UDS</b>	Undisturbed Sample
<b>SPT</b>	Standard Penetration Test
<b>NP</b>	Non Plastic Soils
<b>Cc</b>	Compression Index
<b>Pc</b>	Pre Consolidation pressure
<b>TUU</b>	Unconsolidated undrained triaxial test
<b>DUU</b>	Unconsolidated undrained direct shear test
<b>HWR</b>	Highly Weathered Rock
<b>MWR</b>	Moderately Weathered Rock
<b>FR</b>	Fresh Rock
<b>TCU</b>	Consolidated Undrained triaxial test
<b>DCU</b>	Consolidated Undrained Directshear test

## REFERENCE

<b>Indian Standards</b>	IS 2720 Pt. II, III, IV, V, XIII, XXXI, XXVI, XXV IS 1498, IS 6403, IS 1904, IS 2911 IS : 12070 - 1987, IS : 8009 - Pt- 1 - 1973, IS : 4453 - 1967
<b>Murthy V.N.S.</b>	Soil Mechanics and Foundation engineering ( Dhanpat Rai and Sons Delhi )
<b>Lambe T.W.</b>	Soil testing or Engineers ( Wilery Easter Ltd., New Delhi )
<b>Peck. R.S. Hanson W.E.</b>	Foundation Engineering ( Asia Publishing House )
<b>Nayak N.V.</b>	Foundation Engineering Manual ( Dhanpat Rai and Sons )
<b>Kaniraj S.R.</b>	Design aids in soil mechnaics and foundation Engineering ( Tata Mc Graw Hill Publishing Co. Ltd. )
<b>Alam Singh</b>	Modern Geotechnical Eng. ( IBT Publishing & Distrubutors Delhi. )





# ANNEXURE

S. Naveen

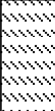



Vishnu








Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat : Long	19.846847 72.774671	TABLE - 2 Borehole - A1							
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock				
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs		Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
0.00	0.50	DS	Clay of Medium Plasticity		CI	0	16	29	55	48	25	23														
1.50	1.95	SPT			CI	0	20	32	48	43	20	23														
2.00	3.00	Core	Completely Weathered Rock recovered in Granular pieces		CWR								1.84		2.66							4.22	0.31			
3.00	4.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR									1.96		2.67						4.10	0.27		9	
4.00	5.00	Core			HWR										1.99		2.67						3.88	0.25		11
5.00	6.00	Core			HWR										2.03		2.68						3.64	0.24		12
6.00	7.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR									2.15		2.68						3.21	0.20		62	
7.00	8.00	Core			HWR										2.16		2.69						2.99	0.20		79
8.00	9.00	Core			HWR										2.19		2.69						2.65	0.19		123



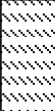





Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat : Long		19.846847 72.774671		TABLE - 2 Borehole - A1						
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
9.00	10.00	Core	Moderately Weathered Rock of Moderately Strong in Strength		MWR								2.40		2.70							2.33	0.11		322		
10.00	11.00	Core			MWR										2.43		2.71						2.12	0.10		411	
11.00	12.00	Core			MWR										2.45		2.71						2.06	0.10		495	
12.00	13.00	Core			MWR										2.48		2.72						1.87	0.09		585	
13.00	14.00	Core			MWR										2.51		2.72						1.62	0.08		622	
14.00	15.00	Core	Slightly Weathered Rock of Strong in Strength		SWR									2.57		2.73							1.45	0.06		678	
15.00	16.00	Core			SWR										2.61		2.74						1.32	0.05		711	
16.00	17.00	Core			SWR										2.63		2.74						1.11	0.04		735	
17.00	18.00	Core	Fresh Rock of Strong in strength		FR									2.64		2.75							0.96	0.04		755	
18.00	19.00	Core			FR										2.67		2.75						0.77	0.03		787	






Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat : Long	19.847059 72.774443	TABLE - 2 Borehole - P01											
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock							
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs		Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm²)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27			
0.00	0.50	DS	Clay of Medium Plasticity		CI	0	19	30	51	47	23	24																	
1.50	1.95	SPT		CI	1	22	29	48	45	22	23																		
2.00	3.00	Core	Completely Weathered Rock recovered in Granular pieces		CWR								1.85		2.66							4.44	0.30						
3.00	4.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR									1.95		2.67							4.22	0.27		8			
4.00	5.00	Core			HWR										1.98		2.67							3.97	0.26		10		
5.00	6.00	Core			HWR										2.02		2.68								3.62	0.25		12	
6.00	7.00	Core			HWR										2.13		2.69									3.12	0.21		60
7.00	8.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR									2.17		2.69										2.96	0.19		75
8.00	9.00	Core			HWR										2.21		2.69										2.66	0.18	









Vishwas Geotech Pvt. Ltd. Ahmedabad						SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat : 19.847059 Long 72.774443		TABLE - 2 Borehole - P01							
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
9.00	10.00	Core	Moderately Weathered Rock of Moderately Strong in Strength		MWR								2.41		2.69							2.45	0.10		356		
10.00	11.00	Core			MWR										2.44		2.71						2.26	0.10		425	
11.00	12.00	Core			MWR										2.46		2.72						2.10	0.10		510	
12.00	13.00	Core			MWR										2.49		2.72						1.96	0.08		565	
13.00	14.00	Core			MWR										2.52		2.73						1.80	0.08		611	
14.00	15.00	Core	Slightly Weathered Rock of Strong in Strength		SWR									2.58		2.74							1.66	0.06		655	
15.00	16.00	Core			SWR										2.62		2.74						1.41	0.04		700	
16.00	17.00	Core			SWR										2.63		2.75						1.22	0.04		723	
17.00	18.00	Core	Fresh Rock of Strong in strength		FR									2.65		2.75							0.88	0.04		759	
18.00	19.00	Core			FR										2.66		2.75						0.51	0.03		794	





Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat : Long		19.847264 72.774221		TABLE - 2 Borehole - P02								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock						
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs		Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27		
0.00	0.50	DS	Clay of Medium Plasticity		CI	0	18	32	50	46	25	21																
1.50	1.95	SPT			CI	2	16	30	52	48	26	22																
2.00	3.00	Core	Completely Weathered Rock recovered in Granular pieces		CWR								1.84		2.67							4.33	0.31					
3.00	4.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR									1.96		2.67							4.05	0.27		7		
4.00	5.00	Core			HWR										1.99		2.68							3.95	0.26		9	
5.00	6.00	Core			HWR										2.03		2.68								3.58	0.24		11
6.00	7.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR									2.12		2.68								3.15	0.21		56	
7.00	8.00	Core			HWR										2.16		2.69								3.00	0.20		67
8.00	9.00	Core			HWR										2.20		2.69								2.77	0.18		111











Vishwas Geotech Pvt. Ltd. Ahmedabad						SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat : Long		19.847264 72.774221		TABLE - 2 Borehole - P02						
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock						
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27		
9.00	10.00	Core	Moderately Weathered Rock of Moderately Strong in Strength		MWR								2.40		2.70							2.45	0.11		319			
10.00	11.00	Core			MWR									2.43		2.70							2.26	0.10		411		
11.00	12.00	Core			MWR									2.46		2.71							2.10	0.09		464		
12.00	13.00	Core	Slightly Weathered Rock of Strong in Strength		SWR									2.51		2.71							1.96	0.07		548		
13.00	14.00	Core			SWR										2.56		2.72							1.80	0.06		579	
14.00	15.00	Core			SWR										2.61		2.73							1.66	0.04		610	
15.00	16.00	Core			SWR										2.63		2.73							1.41	0.04		668	
16.00	17.00	Core			SWR										2.65		2.74							1.22	0.03		699	
17.00	18.00	Core	Fresh Rock of Strong in strength		FR									2.67		2.75							0.88	0.03		723		
18.00	19.00	Core			FR										2.69		2.75							0.51	0.02		755	








Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat : Long		19.847471 72.773998		TABLE - 2 Borehole - P03						
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock				
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs		Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
0.00	0.50	DS	Clay of Medium Plasticity		CI	1	16	37	46	48	28	20														
1.50	1.95	SPT		CI	2	19	32	47	45	26	19															
2.00	3.00	Core	Completely Weathered Rock recovered in Granular pieces		CWR								1.81		2.66							4.45	0.32			
3.00	4.00	Core			CWR									1.83		2.67							4.12	0.31		
4.00	5.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR								2.02		2.67							3.91	0.24		8	
5.00	6.00	Core			HWR									2.05		2.68							3.66	0.24		12
6.00	7.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR								2.10		2.68							3.29	0.22		58	
7.00	8.00	Core			HWR									2.15		2.69							3.04	0.20		69
8.00	9.00	Core			HWR									2.19		2.69							2.89	0.19		101









Vishwas Geotech Pvt. Ltd. Ahmedabad						SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat : Long		19.847471 72.773998		TABLE - 2 Borehole - P03						
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock						
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs		Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27		
9.00	10.00	Core	Moderately Weathered Rock of Moderately Strong in Strength		MWR								2.39		2.70							2.68	0.11		289			
10.00	11.00	Core			MWR										2.41		2.71						2.50	0.11		399		
11.00	12.00	Core			MWR										2.44		2.71						2.30	0.10		456		
12.00	13.00	Core			MWR										2.48		2.71						2.08	0.08		522		
13.00	14.00	Core	Slightly Weathered Rock of Strong in Strength		SWR								2.57		2.72							1.88	0.06		598			
14.00	15.00	Core			SWR										2.60		2.72						1.59	0.04		621		
15.00	16.00	Core			SWR										2.61		2.73						1.22	0.04		666		
16.00	17.00	Core			SWR										2.64		2.74						1.08	0.04		687		
17.00	18.00	Core	Fresh Rock of Strong in strength		FR								2.65		2.74							0.91	0.03		700			
18.00	19.00	Core			FR										2.66		2.75						0.67	0.03		742		







Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat : Long	19.847677 72.773776	TABLE - 2 Borehole - P04								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock				
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs		Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
0.00	0.50	DS	Clay of High Plasticity		CH	0	9	26	65	68	30	38														
1.50	1.95	SPT		CH	0	11	29	60	65	29	36															
2.00	3.00	Core	Completely Weathered Rock recovered in Granular pieces		CWR								1.83		2.66							4.33	0.31			
3.00	4.00	Core			CWR									1.86		2.66							4.19	0.30		
4.00	5.00	Core	Highly Weathered Rock of Moderately Weak in Strength	HWR									1.99		2.67							3.86	0.25		51	
5.00	6.00	Core		HWR									2.03		2.68							3.59	0.24		63	
6.00	7.00	Core		HWR									2.10		2.68							3.26	0.22		79	
7.00	8.00	Core		HWR									2.13		2.69							3.07	0.21		97	
8.00	9.00	Core		HWR									2.20		2.69							2.96	0.18		124	








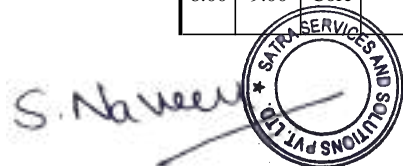


Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat : Long		19.847677 72.773776		TABLE - 2 Borehole - P04						
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs		Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
9.00	10.00	Core	Moderately Weathered Rock of Moderately Strong in Strength		MWR								2.38		2.70							2.71	0.12		333		
10.00	11.00	Core			MWR										2.40		2.70						2.59	0.11		412	
11.00	12.00	Core			MWR										2.43		2.70						2.33	0.10		518	
12.00	13.00	Core			MWR										2.47		2.71						2.02	0.09		567	
13.00	14.00	Core	Slightly Weathered Rock of Strong in Strength		SWR								2.56		2.71						1.91	0.06		600			
14.00	15.00	Core			SWR										2.59		2.72					1.57	0.05		632		
15.00	16.00	Core			SWR										2.62		2.72					1.26	0.04		658		
16.00	17.00	Core			SWR										2.64		2.73					1.03	0.03		699		
17.00	18.00	Core			SWR										2.66		2.74					0.81	0.03		715		
18.00	19.00	Core			SWR								2.67		2.74					0.51	0.03		751				







Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat : Long		19.847883 72.773554		TABLE - 2 Borehole - P05						
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock				
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs		Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
0.00	0.50	DS	Clay of High Plasticity		CH	0	9	26	65	68	30	38														
1.50	1.95	SPT			CH	0	11	29	60	65	29	36														
2.00	3.00	Core	Completely Weathered Rock recovered in Granular pieces		CWR								1.85		2.67							4.20	0.31			
3.00	4.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR									1.93		2.68						4.11	0.28		12	
4.00	5.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR									1.98		2.68						3.79	0.26		54	
5.00	6.00	Core			HWR										2.02		2.69						3.62	0.25		62
6.00	7.00	Core			HWR										2.09		2.69						3.36	0.22		78
7.00	8.00	Core			HWR										2.12		2.70						3.10	0.21		92
8.00	9.00	Core		HWR									2.21		2.70						3.00	0.18		117		









Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat : Long		19.847883 72.773554		TABLE - 2 Borehole - P05						
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs		Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
9.00	10.00	Core	Moderately Weathered Rock of Moderately Strong in Strength		MWR								2.39		2.70							2.67	0.11		299		
10.00	11.00	Core			MWR										2.41		2.70						2.35	0.11		403	
11.00	12.00	Core			MWR										2.47		2.71						2.06	0.09		511	
12.00	13.00	Core			MWR										2.52		2.71						1.91	0.07		545	
13.00	14.00	Core	Slightly Weathered Rock of Strong in Strength		SWR								2.59		2.72							1.82	0.05		581		
14.00	15.00	Core			SWR										2.62		2.72						1.62	0.04		602	
15.00	16.00	Core			SWR										2.64		2.73						1.32	0.03		641	
16.00	17.00	Core			SWR										2.65		2.74						1.08	0.03		678	
17.00	18.00	Core			SWR										2.67		2.74						0.84	0.03		700	
18.00	19.00	Core	Fresh Rock of Strong in strength		FR								2.68		2.75							0.66	0.03		744		






Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat : Long		19.848089 72.773332		TABLE - 2 Borehole - P06						
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock				
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs		Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
0.00	0.50	DS	Clay of High Plasticity		CH	1	6	32	61	65	29	36														
1.50	1.95	SPT			CH	1	8	33	58	63	28	35														
2.00	3.00	Core	Completely Weathered Rock recovered in Granular pieces		CWR								1.83		2.67							4.35	0.31			
3.00	4.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR									1.94		2.68						4.12	0.28		10	
4.00	5.00	Core			HWR										1.99		2.69						3.89	0.26		11
5.00	6.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR									2.01		2.69						3.71	0.25		52	
6.00	7.00	Core			HWR										2.05		2.70						3.45	0.24		63
7.00	8.00	Core			HWR										2.10		2.70						3.16	0.22		74
8.00	9.00	Core			HWR									2.20		2.70						3.02	0.19		119	









Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat : Long		19.848089 72.773332		TABLE - 2 Borehole - P06						
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs		Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
9.00	10.00	Core	Moderately Weathered Rock of Moderately Strong in Strength		MWR								2.38		2.70							2.78	0.12		299		
10.00	11.00	Core			MWR										2.42		2.71						2.56	0.11		410	
11.00	12.00	Core			MWR										2.49		2.72						2.32	0.08		532	
12.00	13.00	Core	Slightly Weathered Rock of Strong in Strength		SWR									2.59		2.72						2.13	0.05		565		
13.00	14.00	Core			SWR										2.62		2.72						1.96	0.04		599	
14.00	15.00	Core			SWR										2.63		2.73						1.84	0.04		612	
15.00	16.00	Core			SWR										2.65		2.73						1.41	0.03		645	
16.00	17.00	Core			FR										2.66		2.73						1.06	0.03		681	
17.00	18.00	Core	Fresh Rock of Strong in strength		FR									2.68		2.74						0.88	0.02		701		
18.00	19.00	Core			FR										2.69		2.74						0.36	0.02		723	






Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates	Lat : Long		19.848295 72.773109		TABLE - 2 Borehole - P07									
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock							
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs		Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm²)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27			
0.00	0.50	DS	Clay of Medium Plasticity		CI	5	12	32	51	47	23	24																	
1.50	1.95	SPT			CI	5	10	33	52	48	25	23																	
2.00	3.00	Core	Completely Weathered Rock recovered in Granular pieces		CWR								1.82		2.67							4.44	0.32						
3.00	4.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR									1.95		2.67							4.15	0.27		9			
4.00	5.00	Core			HWR										1.98		2.68							3.96	0.26		12		
5.00	6.00	Core			HWR										2.02		2.68								3.87	0.25		56	
6.00	7.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR									2.06		2.69									3.61	0.23		66	
7.00	8.00	Core			HWR										2.11		2.69									3.26	0.22		79
8.00	9.00	Core		HWR										2.21		2.70										3.10	0.18		123







Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat : 19.848295 Long 72.773109		TABLE - 2 Borehole - P07								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
9.00	10.00	Core	Moderately Weathered Rock of Moderately Strong in Strength		MWR								2.36		2.70							2.95	0.13		302		
10.00	11.00	Core			MWR										2.43		2.70						2.65	0.10		415	
11.00	12.00	Core			MWR										2.50		2.71						2.31	0.08		526	
12.00	13.00	Core	Slightly Weathered Rock of Strong in Strength		SWR									2.51		2.71						2.02	0.07		556		
13.00	14.00	Core			SWR										2.61		2.71						1.84	0.04		591	
14.00	15.00	Core			SWR										2.62		2.72						1.62	0.04		603	
15.00	16.00	Core			SWR										2.65		2.72						1.30	0.03		651	
16.00	17.00	Core	Fresh Rock of Strong in strength		FR									2.66		2.72						1.01	0.02		689		
17.00	18.00	Core			FR										2.67		2.74						0.95	0.03		702	
18.00	19.00	Core			FR										2.69		2.75						0.62	0.02		732	








Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat : Long		19.848501 72.772887		TABLE - 2 Borehole - P08							
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs		Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
0.00	0.50	DS	Clay of Medium Plasticity		CI	0	14	30	56	48	23	25															
1.50	1.95	SPT			CI	1	15	32	52	45	21	24															
2.00	3.00	Core	Completely Weathered Rock recovered in Granular pieces		CWR								1.81		2.66							4.19	0.32				
3.00	4.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR									1.94		2.67							4.03	0.27		7	
4.00	5.00	Core			HWR										1.97		2.67							3.91	0.26		9
5.00	6.00	Core			HWR										2.01		2.68								3.74	0.25	
6.00	7.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR									2.05		2.68								3.51	0.24		62
7.00	8.00	Core			HWR										2.12		2.69								3.22	0.21	
8.00	9.00	Core		HWR										2.20		2.69								3.05	0.18		122









Vishwas Geotech Pvt. Ltd. Ahmedabad						SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat : Long		19.848501 72.772887		TABLE - 2 Borehole - P08						
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters					Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Cohesion kg/sq.cm.		Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27		
9.00	10.00	Core	Moderately Weathered Rock of Moderately Strong in Strength		MWR								2.35		2.70							2.88	0.13		226			
10.00	11.00	Core			MWR										2.42		2.70						2.65	0.10		406		
11.00	12.00	Core			MWR										2.49		2.70						2.41	0.08		507		
12.00	13.00	Core			MWR										2.52		2.71						2.22	0.07		545		
13.00	14.00	Core	Slightly Weathered Rock of Strong in Strength		MWR								2.60		2.71							1.89	0.04		584			
14.00	15.00	Core			SWR										2.61		2.71						1.42	0.04		602		
15.00	16.00	Core			SWR										2.64		2.72						1.21	0.03		645		
16.00	17.00	Core	SWR										2.65		2.72						0.91	0.03		669				
17.00	18.00	Core	Fresh Rock of Strong in strength		FR								2.65		2.73						0.75	0.03		684				
18.00	19.00	Core			FR										2.68		2.74						0.51	0.02		705		






Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat : Long		19.848707 72.772666		TABLE - 2 Borehole - P09						
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock				
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs		Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
0.00	0.50	DS	Clay of Medium Plasticity		CI	2	15	32	51	46	22	24														
1.50	1.95	SPT		CI	2	16	33	49	44	20	24															
2.00	3.00	Core	Completely Weathered Rock recovered in Granular pieces		CWR								1.79		2.67							4.23	0.33			
3.00	4.00	Core			CWR									1.80		2.68							4.03	0.33		
4.00	5.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR								1.98		2.68							3.84	0.26		8	
5.00	6.00	Core			HWR									2.00		2.69							3.68	0.26		12
6.00	7.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR								2.07		2.69							3.45	0.23		59	
7.00	8.00	Core			HWR									2.13		2.70							3.30	0.21		69
8.00	9.00	Core			HWR									2.22		2.70							3.12	0.18		121



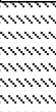







Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat : Long		19.848707 72.772666		TABLE - 2 Borehole - P09							
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock						
1	2	3				4	5	6	7	8	9	10				11	12	13		14	15	16	17	18	19	20	21	22
9.00	10.00	Core	Moderately Weathered Rock of Moderately Strong in Strength		MWR								2.36		2.70								3.01	0.13		203		
10.00	11.00	Core			MWR										2.48		2.71							2.85	0.08		423	
11.00	12.00	Core			MWR										2.50		2.71							2.67	0.08		499	
12.00	13.00	Core			MWR										2.53		2.71							2.30	0.07		532	
13.00	14.00	Core			MWR										2.59		2.72							1.74	0.05		589	
14.00	15.00	Core	Slightly Weathered Rock of Strong in Strength		SWR									2.62		2.72								1.46	0.04		612	
15.00	16.00	Core			SWR										2.65		2.73							1.12	0.03		632	
16.00	17.00	Core			SWR										2.66		2.73							0.97	0.03		648	
17.00	18.00	Core			SWR										2.69		2.74							0.62	0.02		675	
18.00	19.00	Core			SWR										2.69		2.75							0.41	0.02		698	





Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat : Long	19.848913 72.772443	TABLE - 2 Borehole - P10							
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock				
1	2	3				4	5	6	7	8	9	10				11	12	13		14	15	16	17	18	19	20
0.00	0.50	DS	Clay of Medium Plasticity		CI	4	12	30	54	45	23	22														
1.50	1.95	SPT			CI	5	13	29	53	46	23	23														
2.00	3.00	Core	Completely Weathered Rock recovered in Granular pieces		CWR								1.80		2.67							4.30	0.33			
3.00	4.00	Core			CWR										1.81		2.67							4.05	0.32	
4.00	5.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR								1.99		2.68							3.89	0.26		6	
5.00	6.00	Core			HWR										2.01		2.68							3.71	0.25	
6.00	7.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR								2.08		2.69							3.56	0.23		11	
7.00	8.00	Core			HWR										2.12		2.69							3.44	0.21	
8.00	9.00	Core			HWR								2.21		2.69							3.26	0.18		123	










Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat : Long		19.848913 72.772443		TABLE - 2 Borehole - P10						
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
9.00	10.00	Core	Moderately Weathered Rock of Moderately Strong in Strength		MWR								2.35		2.70							3.06	0.13		210		
10.00	11.00	Core			MWR										2.49		2.70						2.95	0.08		456	
11.00	12.00	Core	Slightly Weathered Rock of Strong in Strength		SWR									2.51		2.71						2.51	0.07		501		
12.00	13.00	Core			SWR										2.55		2.71						2.30	0.06		542	
13.00	14.00	Core			SWR										2.58		2.71						1.62	0.05		600	
14.00	15.00	Core			SWR										2.63		2.72						1.26	0.03		627	
15.00	16.00	Core			SWR										2.64		2.72						1.02	0.03		649	
16.00	17.00	Core			SWR										2.65		2.73						0.80	0.03		656	
17.00	18.00	Core			SWR										2.68		2.74						0.51	0.02		689	
18.00	19.00	Core			SWR										2.69		2.74						0.33	0.02		707	





Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.849119 Long: 72.772221		TABLE - 2 Borehole - P11							
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock				
1	2	3	4	5	6	Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index	Dry Density gm/cc	Natural Moisture W <sub>n</sub> %	Specific Gravity G <sub>s</sub>	Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity
0.00	0.50	DS	Clay of High Plasticity		CH	0	8	32	60	68	29	39														
1.50	1.95	SPT			CH	0	10	35	55	63	31	32														
3.00	4.00	Core	Completely Weathered Rock Recovered in Granular Form		CWR								1.81		2.66							4.20	0.32			
4.00	5.00	Core	Highly Weathered Rock of Very Waeak in Strength		HWR									1.83		2.67						4.05	0.31		7	
5.00	6.00	Core			HWR										1.85		2.67					3.95	0.31		9	
6.00	7.00	Core			HWR										1.88		2.67					3.70	0.30		11	
7.00	8.00	Core			Highly Weathered Rock of Weak in Strength	HWR									1.95		2.68					3.56	0.27		36	
8.00	9.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR									2.05		2.68					3.10	0.24		68		
9.00	10.00	Core			HWR										2.13		2.69					3.08	0.21		89	










Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.849119 Long: 72.772221		TABLE - 2 Borehole - P11								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture W n %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
10.00	11.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR								2.33		2.70							2.95	0.14		102		
11.00	12.00	Core			HWR										2.35		2.70						2.81	0.13		123	
12.00	13.00	Core	Highly Weathered Rock of Moderately Strong in Strength		HWR									2.40		2.71						2.55	0.11		362		
13.00	14.00	Core			HWR										2.46		2.72						2.35	0.10		421	
14.00	15.00	Core	Moderately Weathered Rock of Moderately Strong in Strength		MWR									2.51		2.73						2.10	0.08		499		
15.00	16.00	Core			MWR										2.56		2.73						1.91	0.06		526	
16.00	17.00	Core			MWR										2.60		2.74						1.59	0.05		556	
17.00	18.00	Core	Slightly Weathered Rock of Strong in Strength		SWR									2.63		2.74						1.32	0.04		584		
18.00	19.00	Core			SWR										2.65		2.74						1.05	0.03		620	





Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates	Lat: 19.849325 Long: 72.771998		TABLE - 2 Borehole - P12										
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock					
1	2	3	4	5	6	Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index	Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
0.00	0.50	DS	Clay of High Plasticity		CH	0	10	35	55	65	29	36															
1.50	1.95	SPT			CH	0	13	30	57	67	30	37															
3.00	4.00	Core	Completely Weathered Rock Recovered in Granular Form		CWR								1.79	2.66								4.33	0.33				
4.00	5.00	Core	Highly Weathered Rock of Very Waeak in Strength		HWR									1.82	2.67							4.15	0.32		8		
5.00	6.00	Core			HWR										1.84	2.67							4.03	0.31		10	
6.00	7.00	Core			HWR										1.87	2.68							3.84	0.30		12	
7.00	8.00	Core			Highly Weathered Rock of Weak in Strength	HWR									1.97	2.68							3.71	0.26		34	
8.00	9.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR									2.06	2.69							3.51	0.23		65		
9.00	10.00	Core			HWR										2.14	2.69							3.36	0.20		81	











Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.849325 Long: 72.771998		TABLE - 2 Borehole - P12								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit					Specific Gravity G <sub>s</sub>	Shear Parameters				Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture W <sub>n</sub> %	Cohesion kg/sq.cm.		Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
10.00	11.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR								2.32		2.70							3.10	0.14		100		
11.00	12.00	Core			HWR										2.36		2.71						2.89	0.13		124	
12.00	13.00	Core	Highly Weathered Rock of Moderately Strong in Strength		HWR									2.41		2.71						2.68	0.11		351		
13.00	14.00	Core			HWR										2.47		2.71						2.61	0.09		439	
14.00	15.00	Core			HWR										2.52		2.72						2.11	0.07		501	
15.00	16.00	Core	Moderately Weathered Rock of Moderately Strong in Strength		MWR									2.55		2.72						1.81	0.06		532		
16.00	17.00	Core			MWR										2.59		2.73						1.60	0.05		549	
17.00	18.00	Core	Slightly Weathered Rock of Strong in Strength		SWR									2.62		2.73						1.35	0.04		575		
18.00	19.00	Core			SWR										2.65		2.73						1.03	0.03		601	






Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat :	19.849531		TABLE - 2							
															Long	72.771776		Borehole - P13								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock				
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs		Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
0.00	0.50	DS	Clay of Medium Plasticity		CI	2	14	32	52	46	22	24														
1.50	1.95	SPT			CI	3	12	30	55	48	25	23														
2.00	3.00	Core	Completely Weathered Rock recovered in Granular pieces		CWR								1.79		2.67							4.46	0.33			
3.00	4.00	Core			CWR									1.82		2.68							4.21	0.32		
4.00	5.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR								1.99		2.68							3.95	0.26		8	
5.00	6.00	Core			HWR									2.02		2.69							3.74	0.25		10
6.00	7.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR								2.08		2.69							3.63	0.23		12	
7.00	8.00	Core			HWR									2.13		2.69							3.52	0.21		55
8.00	9.00	Core			HWR								2.20		2.70							3.31	0.19		120	








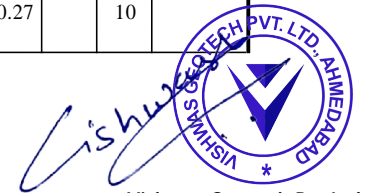


Vishwas Geotech Pvt. Ltd. Ahmedabad						SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat : 19.849531 Long 72.771776		TABLE - 2 Borehole - P13							
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs		Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
9.00	10.00	Core	Moderately Weathered Rock of Moderately Strong in Strength		MWR								2.34		2.70							3.11	0.13		159		
10.00	11.00	Core			MWR										2.41		2.71						2.95	0.11		503	
11.00	12.00	Core	Slightly Weathered Rock of Strong in Strength		SWR									2.52		2.71						2.30	0.07		541		
12.00	13.00	Core			SWR										2.56		2.72						1.84	0.06		581	
13.00	14.00	Core	Fresh Rock of Strong in Strength		FR									2.59		2.72						1.20	0.05		610		
14.00	15.00	Core	Slightly Weathered Rock of Strong in Strength		SWR									2.62		2.73						0.95	0.04		635		
15.00	16.00	Core			SWR										2.63		2.73						0.77	0.04		659	
16.00	17.00	Core			SWR										2.65		2.74						0.62	0.03		684	
17.00	18.00	Core			SWR										2.66		2.74						0.45	0.03		693	
18.00	19.00	Core			SWR										2.68		2.74						0.33	0.02		705	






Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat : 19.849737 Long 72.771554		TABLE - 2 Borehole - P14								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock				
1	2	3	4	5	6	Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index	Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm²)	Modulus of Elasticity
0.00	0.50	DS	Clay of Medium Plasticity		CI	3	12	32	53	49	25	24														
1.50	1.95	SPT	Completely Weathered Rock Recovered in Residual Form		CWR	28	55		17	NP	NP	NP														
2.00	3.00	SPT		CWR	40	52		8	NP	NP	NP															
3.00	4.00	SPT		CWR	39	56		5	NP	NP	NP															
4.00	5.00	SPT		CWR	45	51		4	NP	NP	NP															
5.00	6.00	SPT		CWR	41	56		3	NP	NP	NP															
6.00	7.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR								1.89		2.67							3.20	0.29		7	
7.00	8.00	Core		HWR										1.92		2.67						3.02	0.28		9	
8.00	9.00	Core		HWR										1.96		2.67						2.69	0.27		10	










Vishwas Geotech Pvt. Ltd. Ahmedabad						SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat : 19.849737 Long 72.771554		TABLE - 2 Borehole - P14							
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs		Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
9.00	10.00	Core	Highly Weathered Rock of Moderately weak in Strength		HWR								2.28		2.68							2.33	0.15		92		
10.00	11.00	Core			HWR									2.36		2.69						2.01	0.12		104		
11.00	12.00	Core	Moderately Weathered Rock of Moderately Strong in Strength		MWR									2.40		2.69						1.78	0.11		195		
12.00	13.00	Core			MWR										2.44		2.70						1.41	0.10		248	
13.00	14.00	Core			MWR										2.49		2.70						1.25	0.08		309	
14.00	15.00	Core	Slightly Weathered Rock of Moderately Strong in Strength		SWR									2.53		2.70						1.03	0.06		412		
15.00	16.00	Core			SWR										2.58		2.71						0.85	0.05		501	
16.00	17.00	Core			SWR										2.62		2.71						0.69	0.03		538	
17.00	18.00	Core	Slightly Weathered Rock of Strong in Strength		SWR									2.68		2.72						0.54	0.01		561		
18.00	19.00	Core			SWR										2.69		2.73						0.35	0.01		610	








Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat : Long		19.849943 72.771332		TABLE - 2 Borehole - P15							
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm²)	Modulus of Elasticity	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
0.00	0.50	DS	Clay of High Plasticity		CH	5	13	33	49	66	33	33															
1.50	1.95	SPT	Completely Weathered Rock Recovered in Residual Form		CWR	26	63		11	NP	NP	NP															
2.00	3.00	Core			CWR	35	62		3	NP	NP	NP															
3.00	4.00	Core			CWR	38	59		3	NP	NP	NP															
4.00	5.00	Core			CWR	36	61		3	NP	NP	NP															
5.00	6.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR								2.03		2.67							3.91	0.24		6		
6.00	7.00	Core			HWR									2.06		2.68							3.80	0.23		8	
7.00	8.00	Core			HWR									2.09		2.68							3.71	0.22		10	
8.00	9.00	Core			HWR									2.12		2.69							3.56	0.21		11	










Vishwas Geotech Pvt. Ltd. Ahmedabad						SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat : 19.849943 Long 72.771332		TABLE - 2 Borehole - P15							
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs		Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
9.00	10.00	Core	Moderately Weathered Rock of Moderately Strong in Strength		MWR								2.29		2.69							3.34	0.15		160		
10.00	11.00	Core			MWR										2.31		2.70						3.15	0.14		194	
11.00	12.00	Core			MWR										2.33		2.70						3.03	0.14		206	
12.00	13.00	Core			MWR										2.35		2.71						2.96	0.13		239	
13.00	14.00	Core			MWR										2.39		2.71						2.84	0.12		321	
14.00	15.00	Core	Slightly Weathered Rock of Moderately Strong in Strength		SWR								2.46		2.72							2.65	0.10		381		
15.00	16.00	Core			SWR										2.49		2.72						2.51	0.08		426	
16.00	17.00	Core			SWR										2.54		2.73						2.32	0.07		509	
17.00	18.00	Core	Slightly Weathered Rock of Strong in Strength		SWR								2.59		2.74							2.00	0.05		541		
18.00	19.00	Core			SWR										2.62		2.74						1.78	0.04		559	






Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat : Long	19.850149 72.771110	TABLE - 2 Borehole - P16								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock				
1	2	3	4	5	6	Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index	Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm²)	Modulus of Elasticity
0.00	0.50	DS	Clay of High Plasticity		CH	3	12	35	50	65	32	33														
1.50	1.95	SPT	Completely Weathered Rock Recovered in Residual Form		CWR	22	62		16	NP	NP	NP														
2.00	3.00	Core			CWR	38	59		3	NP	NP	NP														
3.00	4.00	Core			CWR	42	51		7	NP	NP	NP														
4.00	5.00	Core			CWR	41	51		8	NP	NP	NP														
5.00	6.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR								2.02		2.68							3.84	0.25		7	
6.00	7.00	Core			HWR									2.04		2.68							3.69	0.24		9
7.00	8.00	Core			HWR									2.08		2.69							3.62	0.23		10
8.00	9.00	Core			HWR									2.11		2.69							3.50	0.22		11











Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat : Long		19.850149 72.771110		TABLE - 2 Borehole - P16						
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
9.00	10.00	Core	Moderately Weathered Rock of Moderately Strong in Strength		MWR								2.28		2.70							3.34	0.16		141		
10.00	11.00	Core			MWR										2.30		2.70						3.15	0.15		168	
11.00	12.00	Core			MWR										2.35		2.71						3.03	0.13		190	
12.00	13.00	Core			MWR										2.39		2.71						2.96	0.12		234	
13.00	14.00	Core			MWR										2.41		2.72						2.84	0.11		261	
14.00	15.00	Core	Slightly Weathered Rock of Moderately Strong in Strength		SWR									2.48		2.72						2.65	0.09		310		
15.00	16.00	Core			SWR										2.52		2.72						2.51	0.07		369	
16.00	17.00	Core			SWR										2.56		2.73						2.32	0.06		408	
17.00	18.00	Core	Slightly Weathered Rock of Strong in Strength		SWR									2.61		2.73						2.00	0.04		510		
18.00	19.00	Core			SWR										2.63		2.74						1.78	0.04		540	






Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat : Long	19.850356 72.770887	TABLE - 2 Borehole - P17								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock				
1	2	3	4	5	6	Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index	Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity
0.00	0.50	DS	Clay of High Plasticity		CH	0	9	34	57	68	30	38														
1.50	1.95	SPT			CH	0	7	36	57	68	32	36														
2.00	3.00	Core	Completely Weathered Rock recovered in Granular pieces		CWR								1.78		2.66							3.78	0.33			
3.00	4.00	Core			CWR									1.79		2.67							3.66	0.33		
4.00	5.00	Core			CWR										1.82		2.67							3.51	0.32	
5.00	6.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR								1.91		2.68							3.33	0.29		9	
6.00	7.00	Core			HWR										1.96		2.68							3.01	0.27	
7.00	8.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR								2.29		2.68							2.88	0.15		78	
8.00	9.00	Core			HWR										2.35		2.69							2.64	0.13	











Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat : Long		19.850356 72.770887		TABLE - 2 Borehole - P17							
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock						
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27		
9.00	10.00	Core	Moderately Weathered Rock of Moderately Strong in Strength		MWR								2.39		2.69							2.33	0.11		181			
10.00	11.00	Core	Slightly Weathered Rock of Moderately Strong in Strength		SWR									2.44		2.69							2.20	0.09		221		
11.00	12.00	Core			SWR										2.50		2.70						2.08	0.07		261		
12.00	13.00	Core			SWR										2.53		2.70						1.62	0.06		302		
13.00	14.00	Core			Fresh Rock of Strong in Strength	FR									2.55		2.71							1.03	0.06		522	
14.00	15.00	Core	FR												2.58		2.71							0.84	0.05		561	
15.00	16.00	Core	Slightly Weathered Rock of Strong in Strength		SWR									2.61		2.72								0.74	0.04		582	
16.00	17.00	Core			SWR										2.62		2.72								0.66	0.04		594
17.00	18.00	Core	Fresh Rock of Strong in Strength		FR									2.64		2.72								0.51	0.03		607	
18.00	19.00	Core			FR										2.67		2.73								0.33	0.02		621






Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.850562 Long: 72.7706650		TABLE - 2 Borehole - P18							
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock				
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture W <sub>n</sub> %	Specific Gravity G <sub>s</sub>		Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
0.00	0.50	DS	Clay of High Plasticity		CH	0	10	36	54	62	32	30														
1.50	1.95	SPT			CH	0	8	35	57	63	33	30														
2.00	2.45	SPT			CH	4	6	32	58	65	32	33														
3.00	4.00	Core	Completely Weathered Rock recovered in Granular pieces		CWR								1.85		2.67							3.58	0.31			
4.00	5.00	Core			CWR									1.89		2.68							3.44	0.29		
5.00	6.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR								2.31		2.68							3.23	0.14		51	
6.00	7.00	Core			HWR									2.35		2.68							3.10	0.12		61
7.00	8.00	Core			HWR									2.41		2.69							3.02	0.10		68
8.00	9.00	Core	Highly Weathered Rock of Moderately Strong in Strong		HWR								2.55		2.70							2.87	0.06		141	

S. Navneet









Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.850562 Long: 72.7706650		TABLE - 2 Borehole - P18									
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock						
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27		
9.00	10.00	Core	Highly Weathered Rock of Moderately Strong in Strength		HWR								2.61		2.70							2.68	0.03		174			
10.00	11.00	Core	Moderately Weathered Rock of Strong in Strength		MWR									2.63		2.71							2.54	0.03		521		
11.00	12.00	Core			MWR										2.64		2.71							2.33	0.03		544	
12.00	13.00	Core	Slightly Weathered Rock of Strong in Strength		SWR									2.65		2.72							2.16	0.03		584		
13.00	14.00	Core			SWR										2.67		2.72							2.00	0.02		603	
14.00	15.00	Core			SWR										2.68		2.73							1.78	0.02		634	
15.00	16.00	Core			SWR										2.70		2.74							1.61	0.01		669	
16.00	17.00	Core			SWR										2.71		2.75							1.44	0.01		685	
17.00	18.00	Core	Fresh Rock of Strong in Strength		FR									2.73		2.76							1.26	0.01		706		
18.00	19.00	Core			FR										2.75		2.77							1.03	0.01		722	






Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat: 19.850768 Long: 72.7704430		TABLE - 2 Borehole - P19								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock				
1	2	3	4	5	6	Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index	Dry Density gm/cc	Natural Moisture W <sub>n</sub> %	Specific Gravity G <sub>s</sub>	Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity
0.00	0.50	DS	Clay of High Plasticity		CH	0	9	35	56	66	30	36														
1.50	1.95	SPT		CH	0	12	36	52	64	31	33															
2.00	2.45	SPT		CH	2	15	38	45	61	29	32															
3.00	4.00	Core	Completely Weathered Rock recovered in Granular pieces		CWR								1.88		2.67							3.60	0.30			
4.00	5.00	Core			CWR									1.92		2.67							3.45	0.28		
5.00	6.00	Core			CWR									1.95		2.68							3.30	0.27		
6.00	7.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR								2.32		2.68							3.11	0.13		59	
7.00	8.00	Core			HWR									2.39		2.69							3.09	0.11		66
8.00	9.00	Core	Highly Weathered Rock of Moderately Strong in Strong		HWR								2.54		2.69							2.96	0.06		139	

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Vishwas Geotech Pvt. Ltd. Ahmedabad						SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat: 19.850768 Long: 72.7704430		TABLE - 2 Borehole - P19								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock						
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27		
9.00	10.00	Core	Highly Weathered Rock of Moderately Strong in Strength		HWR								2.59		2.70							2.81	0.04		162			
10.00	11.00	Core	Moderately Weathered Rock of Strong in Strength		MWR									2.61		2.70							2.61	0.03		532		
11.00	12.00	Core			MWR										2.64		2.71							2.40	0.03		566	
12.00	13.00	Core	Slightly Weathered Rock of Strong in Strength		SWR									2.66		2.72							2.20	0.02		598		
13.00	14.00	Core			SWR										2.69		2.73							2.03	0.01		621	
14.00	15.00	Core			SWR										2.70		2.74							1.88	0.01		651	
15.00	16.00	Core			SWR										2.71		2.75							1.62	0.01		673	
16.00	17.00	Core			SWR										2.72		2.75							1.41	0.01		699	
17.00	18.00	Core	Fresh Rock of Strong in Strength		FR									2.73		2.76							1.23	0.01		714		
18.00	19.00	Core			FR										2.74		2.76							1.12	0.01		730	






Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat: 19.850974 Long: 72.7702210		TABLE - 2 Borehole - P20								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock				
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs		Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
0.00	0.50	DS	Clay of High Plasticity		CH	0	9	35	56	65	29	36														
1.50	1.95	SPT			CH	0	12	36	52	63	28	35														
2.00	3.00	Core	Completely Weathered Rock recovered in Granular pieces		CWR								1.84		2.67							3.56	0.31			
3.00	4.00	Core			CWR									1.86		2.68							3.51	0.31		
4.00	5.00	Core			CWR									1.90		2.68							3.41	0.29		
5.00	6.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR								2.16		2.69							3.34	0.20		18	
6.00	7.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR								2.20		2.69							3.20	0.18		53	
7.00	8.00	Core			HWR								2.41		2.70							3.06	0.11		62	
8.00	9.00	Core	Highly Weathered Rock of Moderately Strong in Strong		HWR								2.55		2.70							2.88	0.06		147	











Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.850974 Long: 72.7702210		TABLE - 2 Borehole - P20										
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock							
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27			
9.00	10.00	Core	Moderately Weathered Rock of Moderately Strong in Strength		MWR								2.60		2.71							2.71	0.04		168				
10.00	11.00	Core	Slightly Weathered Rock of Strong in Strength		SWR									2.62		2.72							2.55	0.04		530			
11.00	12.00	Core			SWR										2.65		2.72							2.32	0.03		559		
12.00	13.00	Core			SWR										2.67		2.74							1.88	0.03		592		
13.00	14.00	Core	Fresh Rock of Strong in Strength		FR									2.68		2.74								1.69	0.02		611		
14.00	15.00	Core	Slightly Weathered Rock of Strong in Strength		SWR									2.70		2.75								1.41	0.02		642		
15.00	16.00	Core			SWR										2.70		2.76								1.23	0.02		669	
16.00	17.00	Core			SWR										2.72		2.76								1.20	0.01		691	
17.00	18.00	Core	Fresh Rock of Strong in Strength		FR									2.74		2.77									1.15	0.01		711	
18.00	19.00	Core			FR										2.75		2.77								1.09	0.01		722	






Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.85118 Long: 72.7699980		TABLE - 2 Borehole - P21								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture W <sub>n</sub> %	Specific Gravity G <sub>s</sub>	Shear Parameters			Silt Factor	Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
0.00	0.50	DS	Clay of High Plasticity		CH	0	9	35	56	65	29	36															
1.50	1.95	SPT		CH	0	12	36	52	63	28	35																
2.00	3.00	Core	Completely Weathered Rock recovered in Granular pieces		CWR								1.86		2.68							3.60	0.31				
3.00	4.00	Core			CWR									1.89		2.68							3.55	0.29			
4.00	5.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR								1.96		2.69							3.36	0.27		9		
5.00	6.00	Core			HWR									2.18		2.69							3.21	0.19		12	
6.00	7.00	Core			HWR									2.23		2.70							3.05	0.17		17	
7.00	8.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR								2.42		2.70							2.85	0.10		59		
8.00	9.00	Core	Moderately Weathered Rock of Moderately Strong in Strong		MWR								2.58		2.71							2.68	0.05				










Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.85118 Long: 72.7699980		TABLE - 2 Borehole - P21							
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock				
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
9.00	10.00	Core	Moderately Weathered Rock of Moderately Strong in Strength		MWR								2.62		2.72							2.25	0.04		157	
10.00	11.00	Core	Slightly Weathered Rock of Strong in Strength		SWR									2.63		2.73						2.00	0.04		525	
11.00	12.00	Core			SWR										2.66		2.74					1.92	0.03		561	
12.00	13.00	Core			SWR										2.68		2.75					1.69	0.03		581	
13.00	14.00	Core	Fresh Rock of Strong in Strength		FR									2.69		2.75						1.33	0.02		609	
14.00	15.00	Core	Slightly Weathered Rock of Strong in Strength		SWR									2.71		2.76						1.26	0.02		633	
15.00	16.00	Core			SWR										2.72		2.76					1.21	0.01		677	
16.00	17.00	Core			SWR										2.74		2.77					1.18	0.01		690	
17.00	18.00	Core	Fresh Rock of Strong in Strength		FR									2.75		2.77						1.10	0.01		703	
18.00	19.00	Core			FR										2.76		2.78					1.02	0.01		709	






Vishwas Geotech Pvt. Ltd. Ahmedabad						SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat: 19.851592 Long: 72.7695540		TABLE - 2 Borehole - P23						
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock				
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs		Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
0.00	0.50	DS	Clay of High Plasticity		CH	0	10	36	54	66	28	38														
1.50	1.95	SPT			CH	0	11	33	56	67	28	39														
2.00	3.00	Core	Completely Weathered Rock recovered in Granular pieces		CWR								1.76		2.68							3.60	0.34			
3.00	4.00	Core			CWR										1.78		2.68							3.55	0.34	
4.00	5.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR								2.10		2.69							3.35	0.22			
5.00	6.00	Core			HWR										2.20		2.70						3.15	0.19		10
6.00	7.00	Core			HWR										2.25		2.70						2.80	0.17		12
7.00	8.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR								2.30		2.71							2.60	0.15		56	
8.00	9.00	Core	Moderately Weathered Rock of Moderately Strong in Strength		MWR									2.40		2.70						2.40	0.11		130	











Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.851592 Long: 72.7695540		TABLE - 2 Borehole - P23									
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock						
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm²)	Modulus of Elasticity		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27		
9.00	10.00	Core	Moderately Weathered Rock of Moderately Strong in Strength		MWR								2.45		2.72							1.87	0.10		155			
10.00	11.00	Core	Slightly Weathered Rock of Strong in Strength		SWR									2.49		2.72							1.75	0.08		505		
11.00	12.00	Core			SWR										2.54		2.71							1.60	0.06		524	
12.00	13.00	Core			SWR										2.57		2.72							1.53	0.06		548	
13.00	14.00	Core			SWR										2.61		2.73							1.32	0.04		557	
14.00	15.00	Core			SWR										2.64		2.73							1.20	0.03		569	
15.00	16.00	Core	Fresh Rock of Strong in Strength		FR									2.67		2.74								1.01	0.03		575	
16.00	17.00	Core			FR										2.69		2.73							0.85	0.01		581	
17.00	18.00	Core			FR										2.71		2.75							0.54	0.01		589	
18.00	19.00	Core			FR										2.73		2.75							0.46	0.01		596	






Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.851798 Long: 72.7693320	TABLE - 2 Borehole - P24								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock				
1	2	3	4	5	6	Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index	Dry Density gm/cc	Natural Moisture W <sub>n</sub> %	Specific Gravity G <sub>s</sub>	Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity
0.00	0.50	DS	Clay of High Plasticity		CH	0	8	35	57	68	27	41														
1.50	1.95	SPT	Completely Weathered Rock recovered in Granular pieces		CWR																					
2.00	3.00	Core			CWR									1.77		2.67							3.60	0.34		
3.00	4.00	Core			CWR									1.80		2.68							3.55	0.33		
4.00	5.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR								1.89		2.68							3.51	0.29			
5.00	6.00	Core			HWR									1.90		2.69							3.48	0.29		8
6.00	7.00	Core			HWR									2.04		2.70							3.41	0.24		11
7.00	8.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR								2.10		2.71							3.27	0.23		60	
8.00	9.00	Core			HWR									2.22		2.70							3.10	0.18		77













Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.851798 Long: 72.7693320		TABLE - 2 Borehole - P24								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
9.00	10.00	Core	Moderately Weathered Rock of Moderately Strong in Strength		MWR								2.45		2.72							2.45	0.10		132		
10.00	11.00	Core			MWR										2.50		2.72						2.30	0.08		198	
11.00	12.00	Core	Slightly Weathered Rock of Strong in Strength		SWR									2.52		2.73						1.98	0.08		512		
12.00	13.00	Core			SWR										2.55		2.72						1.85	0.06		528	
13.00	14.00	Core			SWR										2.58		2.71						1.60	0.05		536	
14.00	15.00	Core			SWR										2.60		2.72						1.50	0.04		550	
15.00	16.00	Core	Fresh Rock of Strong in Strength		FR									2.62		2.73						0.95	0.04		569		
16.00	17.00	Core			FR										2.63		2.72						0.74	0.03		581	
17.00	18.00	Core			FR										2.64		2.74						0.80	0.04		591	
18.00	19.00	Core			FR										2.66		2.73						0.67	0.03		602	






Vishwas Geotech Pvt. Ltd. Ahmedabad					SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat: 19.852004 Long: 72.7691100		TABLE - 2 Borehole - P25								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock					
1	2	3	4	5	6	Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index	Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
0.00	0.50	DS	Clay of High Plasticity		CH	0	12	34	54	65	27	38															
1.50	1.95	SPT			CH	0	11	31	58	66	29	37															
2.00	3.00	Core	Completely Weathered Rock recovered in Granular pieces		CWR								1.77	2.67								3.40	0.34				
3.00	4.00	Core			CWR									1.79	2.68								3.36	0.33			
4.00	5.00	Core			CWR									1.78	2.68								3.30	0.34			
5.00	6.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR								1.82	2.69								3.28	0.32		9		
6.00	7.00	Core			HWR									1.94	2.69								3.22	0.28		11	
7.00	8.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR								2.25	2.70								3.18	0.17		59		
8.00	9.00	Core	Moderately Weathered Rock of Moderately Strong in Stregh		MWR								2.37	2.71								2.56	0.13		134		







Vishwas Geotech Pvt. Ltd. Ahmedabad						SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat: 19.852004 Long: 72.7691100		TABLE - 2 Borehole - P25							
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
9.00	10.00	Core	Moderately Weathered Rock of Moderately Strong in Strength		MWR								2.45		2.71							2.60	0.10		162		
10.00	11.00	Core	Slightly Weathered Rock of Strong in Strength		SWR									2.52		2.72							2.40	0.07		507	
11.00	12.00	Core			SWR										2.54		2.72						1.98	0.07		512	
12.00	13.00	Core			SWR										2.55		2.72						1.87	0.06		523	
13.00	14.00	Core	Fresh Rock of Strong in Strength		FR									2.57		2.73							1.40	0.06		538	
14.00	15.00	Core			FR										2.59		2.73						1.32	0.05		549	
15.00	16.00	Core	Slightly Weathered Rock of Strong in Strength		SWR									2.61		2.73							1.22	0.04		560	
16.00	17.00	Core			SWR										2.62		2.72						1.09	0.04		574	
17.00	18.00	Core	Fresh Rock of Strong in Strength		FR									2.63		2.73							0.81	0.04		582	
18.00	19.00	Core			FR										2.65		2.74						0.66	0.03		598	






Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat : Long :		19.852210 72.768887		TABLE - 2 Borehole - P26						
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock				
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
0.00	0.50	DS	Completely weathered rock Recovered in Residual form		CWR	30	60	10																		
1.50	1.95	SPT			CWR	40	53	7																		
3.00	3.45	SPT			CWR	50	45	5																		
4.00	5.00	Core	Completely weathered rock Recovered in granular form		CWR									1.75		2.65							5.23	0.34		
5.00	6.00	Core			CWR										1.78		2.66						4.55	0.33		
6.00	7.00	Core			CWR										1.80		2.67						3.12	0.33		
7.00	8.00	Core			CWR										1.88		2.69						2.15	0.30		
8.00	9.00	Core	Moderately weathered rock of Moderately Strong in strength		MWR									2.35		2.70							2.01	0.13		145
9.00	10.00	Core			MWR										2.40		2.70						1.85	0.11		170











Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat : Long :		19.852210 72.768887		TABLE - 2 Borehole - P26						
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
10.00	11.00	Core	Moderately weathered rock of Moderately Strong in strength										2.66		2.72							1.40	0.02		171		
11.00	12.00	Core	Slightly weathered rock of Moderately Strong in strength																								
12.00	13.00	Core	Fresh Rock of Moderately to Strong in strength																								
13.00	14.00	Core																									
14.00	15.00	Core	Slightly weathered rock of Strong in strength																								
15.00	16.00	Core																									
16.00	17.00	Core	Fresh Rock of Strong in strength																								
17.00	18.00	Core																									
18.00	19.00	Core																									






Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat : Long		19.852416 72.7686650		TABLE - 2 Borehole - P27						
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock				
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs		Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
0.00	0.50	DS	Clay of High Plasticity		CH	0	10	35	55	67	28	39														
1.50	1.95	SPT	Completely Weathered Rock recovered in Granular pieces		CWR																					
2.00	3.00	Core			CWR										1.78		2.68						4.15	0.34		
3.00	4.00	Core			CWR										1.79		2.68						4.22	0.33		
4.00	5.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR																					
5.00	6.00	Core			HWR										1.85		2.69						3.45	0.31		
6.00	7.00	Core			HWR										1.88		2.70						3.44	0.30		8
7.00	8.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR																					
8.00	9.00	Core			HWR										1.95		2.71						3.30	0.28		11
																								</		











Vishwas Geotech Pvt. Ltd. Ahmedabad						SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat : Long		19.852416 72.7686650		TABLE - 2 Borehole - P27						
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock						
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27		
9.00	10.00	Core	Moderately Weathered Rock of Moderately Strong in Strength		MWR								2.37		2.71							2.56	0.13		157			
10.00	11.00	Core			MWR										2.42		2.72						2.40	0.11		185		
11.00	12.00	Core	Slightly Weathered Rock of Strong in Strength		SWR									2.47		2.71						2.01	0.09		509			
12.00	13.00	Core			SWR										2.52		2.72						1.75	0.07		514		
13.00	14.00	Core			SWR										2.55		2.71						1.30	0.06		527		
14.00	15.00	Core			SWR										2.60		2.73						1.12	0.05		536		
15.00	16.00	Core	Fresh Rock of Strong in Strength		FR									2.62		2.72						1.04	0.04		548			
16.00	17.00	Core			FR										2.63		2.73						0.80	0.04		556		
17.00	18.00	Core			FR										2.65		2.72						0.54	0.03		570		
18.00	19.00	Core			FR										2.66		2.74						0.38	0.03		582		






Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat : Long		19.852622 72.768443		TABLE - 2 Borehole - P28							
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock					
1	2	3				4	5	6	7	8	9	10				11	12	13		14	15	16	17	18	19	20	21
0.00	0.50	DS	Clay of High Plasticity		CH	0	8	36	56	67	30	37															
1.50	1.95	SPT			CH	0	9	34	57	68	32	36															
2.00	3.00	Core	Completely Weathered Rock recovered in Granular pieces		CWR								1.75		2.66							3.88	0.34				
3.00	4.00	Core			CWR									1.77		2.67							3.74	0.34			
4.00	5.00	Core			CWR									1.86		2.67							3.62	0.30			
5.00	6.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR								1.89		2.67							3.25	0.29		6		
6.00	7.00	Core			HWR									1.96		2.68							2.89	0.27		10	
7.00	8.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR								2.31		2.68							2.78	0.14		72		
8.00	9.00	Core			HWR									2.36		2.68							2.51	0.12		124	










Vishwas Geotech Pvt. Ltd. Ahmedabad						SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat : Long		19.852622 72.768443		TABLE - 2 Borehole - P28								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock								
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm²)	Modulus of Elasticity				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27				
9.00	10.00	Core	Moderately Weathered Rock of Moderately Strong in Strength		MWR								2.40		2.69							2.26	0.11		174					
10.00	11.00	Core	Slightly Weathered Rock of Moderately Strong in Strength		SWR									2.45		2.69							1.87	0.09		208				
11.00	12.00	Core			SWR										2.51		2.69							1.52	0.07		269			
12.00	13.00	Core			SWR										2.54		2.69							1.24	0.06		324			
13.00	14.00	Core	Fresh Rock of Strong in Strength		FR									2.56		2.70								0.83	0.05		532			
14.00	15.00	Core			FR										2.59		2.70								0.56	0.04		564		
15.00	16.00	Core	Slightly Weathered Rock of Strong in Strength		SWR									2.61		2.71									0.74	0.04		579		
16.00	17.00	Core			SWR										2.63		2.71									0.52	0.03		582	
17.00	18.00	Core	Fresh Rock of Strong in Strength		FR									2.65		2.70										0.48	0.02		599	
18.00	19.00	Core			FR										2.68		2.70										0.41	0.01		622






Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat : Long		19.852828 72.768221		TABLE - 2 Borehole - P29						
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock				
1	2	3	4	5	6	Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index	Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm²)	Modulus of Elasticity
0.00	0.50	DS	Clay of Medium Plasticity		CI	1	10	36	53	48	23	25														
1.50	1.95	SPT	Completely Weathered Rock Recovered in Residual Form		CWR	26	66	8		NP	NP	NP														
2.00	3.00	SPT		CWR	41	52	7		NP	NP	NP															
3.00	4.00	SPT		CWR	38	57	5		NP	NP	NP															
4.00	5.00	SPT		CWR	32	64	4		NP	NP	NP															
5.00	6.00	SPT		CWR	33	65	2		NP	NP	NP															
6.00	7.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR								1.90		2.67							3.04	0.29		8	
7.00	8.00	Core		HWR										1.93		2.67						2.74	0.28		10	
8.00	9.00	Core		HWR										1.98		2.68						2.49	0.26		11	










Vishwas Geotech Pvt. Ltd. Ahmedabad						SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat : Long		19.852828 72.768221		TABLE - 2 Borehole - P29						
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters					Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Cohesion kg/sq.cm.		Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27		
9.00	10.00	Core	Highly Weathered Rock of Weak in Strength		HWR								2.30		2.69							2.17	0.14		26			
10.00	11.00	Core			HWR									2.38		2.69						1.94	0.12		41			
11.00	12.00	Core	Moderately Weathered Rock of Moderately Weak in Strength		MWR									2.41		2.70						1.63	0.11		78			
12.00	13.00	Core			MWR										2.46		2.70						1.27	0.09		92		
13.00	14.00	Core			MWR										2.48		2.70						1.12	0.08		124		
14.00	15.00	Core	Slightly Weathered Rock of Moderately Strong in Strength		SWR									2.54		2.71						0.91	0.06		189			
15.00	16.00	Core			SWR										2.58		2.71						0.76	0.05		258		
16.00	17.00	Core			SWR										2.62		2.71						0.61	0.03		346		
17.00	18.00	Core	Slightly Weathered Rock of Strong in Strength		SWR									2.67		2.72						0.53	0.02		537			
18.00	19.00	Core			SWR										2.69		2.72						0.42	0.01		593		





Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates	Lat : Long	19.853034 72.767998	TABLE - 2 Borehole - P30									
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock				
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs		Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
0.00	0.50	DS	Clay of High Plasticity		CH	0	8	34	58	69	29	40														
1.50	1.95	SPT	Completely Weathered Rock Recovered in Residual Form		CWR	27	66	7		NP	NP	NP														
2.00	3.00	Core			CWR	42	52	6		NP	NP	NP														
3.00	4.00	Core			CWR	39	57	4		NP	NP	NP														
4.00	5.00	Core			CWR	33	63	4		NP	NP	NP														
5.00	6.00	Core			CWR	37	60	3		NP	NP	NP														
6.00	7.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR								1.92		2.68							3.52	0.28		7	
7.00	8.00	Core			HWR										1.99		2.68						2.97	0.26		9
8.00	9.00	Core			HWR										2.12		2.68						2.56	0.21		12










Vishwas Geotech Pvt. Ltd. Ahmedabad						SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat : Long		19.853034 72.767998		TABLE - 2 Borehole - P30						
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock						
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27		
9.00	10.00	Core	Highly Weathered Rock of Weak in Strength		HWR								2.28		2.68							2.21	0.15		38			
10.00	11.00	Core	Moderately Weathered Rock of Moderately Weak in Strength		MWR									2.38		2.69							1.98	0.12		58		
11.00	12.00	Core			MWR										2.45		2.69						1.61	0.09		76		
12.00	13.00	Core			MWR										2.51		2.69						1.43	0.07		105		
13.00	14.00	Core			MWR										2.57		2.69						1.31	0.04		123		
14.00	15.00	Core	Slightly Weathered Rock of Moderately Strong in Strength		SWR									2.61		2.70							1.22	0.03		157		
15.00	16.00	Core			SWR										2.64		2.70						0.95	0.02		242		
16.00	17.00	Core			SWR										2.66		2.70						0.74	0.01		371		
17.00	18.00	Core	Slightly Weathered Rock of Strong in Strength		SWR									2.68		2.70							0.63	0.01		534		
18.00	19.00	Core			SWR										2.69		2.70						0.55	0.00		572		





Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat : Long	19.853240 72.767776	TABLE - 2 Borehole - P31								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock				
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm²)	Modulus of Elasticity
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
0.00	0.50	DS	Clay of High Plasticity		CH	1	13	34	52	67	27	40														
1.50	1.95	SPT	Completely Weathered Rock Recovered in Residual Form		CWR	23	68	9		NP	NP	NP														
2.00	3.00	Core			CWR	40	52	8		NP	NP	NP														
3.00	4.00	Core			CWR	35	60	5		NP	NP	NP														
4.00	5.00	Core			CWR	31	65	4		NP	NP	NP														
5.00	6.00	Core			CWR	35	62	3		NP	NP	NP														
6.00	7.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR								2.05	2.68								3.71	0.24		6	
7.00	8.00	Core			HWR									2.09	2.69								3.65	0.22		8
8.00	9.00	Core			HWR									2.12	2.69								3.59	0.21		10











Vishwas Geotech Pvt. Ltd. Ahmedabad						SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat : Long		19.853240 72.767776		TABLE - 2 Borehole - P31						
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock						
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27		
9.00	10.00	Core	Highly Weathered Rock of Weak in Strength		HWR								2.18		2.70							3.46	0.19		25			
10.00	11.00	Core	Moderately Weathered Rock of Moderately Weak in Strength		MWR									2.29		2.71							3.32	0.15		56		
11.00	12.00	Core			MWR										2.36		2.71						3.21	0.13		74		
12.00	13.00	Core			MWR										2.40		2.71						3.07	0.11		93		
13.00	14.00	Core			MWR										2.43		2.71						2.91	0.10		121		
14.00	15.00	Core	Slightly Weathered Rock of Moderately Strong in Strength		SWR									2.49		2.72							2.74	0.08		196		
15.00	16.00	Core			SWR										2.53		2.72						2.52	0.07		283		
16.00	17.00	Core			SWR										2.57		2.72						2.28	0.06		374		
17.00	18.00	Core	Slightly Weathered Rock of Strong in Strength		SWR									2.60		2.73							2.04	0.05		523		
18.00	19.00	Core			SWR										2.63		2.73						1.93	0.04		569		






Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat : Long		19.853446 72.767554		TABLE - 2 Borehole - P32						
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock				
1	2	3	4	5	6	Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index	Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm²)	Modulus of Elasticity
0.00	0.50	DS	Clay of High Plasticity		CH	0	10	36	54	66	28	38														
1.50	1.95	SPT			CH	0	11	33	56	67	28	39														
2.00	3.00	Core	Completely Weathered Rock recovered in Granular pieces		CWR								1.75	2.68								4.30	0.35			
3.00	4.00	Core			CWR									1.77	2.68								4.21	0.34		
4.00	5.00	Core			CWR										1.80	2.68							4.08	0.33		
5.00	6.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR								2.20	2.69								3.87	0.18		7	
6.00	7.00	Core			HWR										2.35	2.69							3.82	0.13		10
7.00	8.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR								2.38	2.70								3.50	0.12		58	
8.00	9.00	Core			HWR										2.40	2.70							3.32	0.11		116











Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat : Long		19.853446 72.767554		TABLE - 2 Borehole - P32						
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
9.00	10.00	Core	Moderately Weathered Rock of Moderately Strong in Strength		MWR								2.44		2.70							2.75	0.10		198		
10.00	11.00	Core	Slightly Weathered Rock of Strong in Strength		SWR									2.49		2.71							2.23	0.08		502	
11.00	12.00	Core			SWR										2.53		2.71						1.64	0.07		514	
12.00	13.00	Core			SWR										2.56		2.71						1.30	0.06		533	
13.00	14.00	Core	Fresh Rock of Strong in Strength		FR									2.60		2.72							1.03	0.04		549	
14.00	15.00	Core			FR										2.65		2.72						0.92	0.03		567	
15.00	16.00	Core	Slightly Weathered Rock of Strong in Strength		SWR									2.67		2.72							0.83	0.02		578	
16.00	17.00	Core			SWR										2.69		2.73						0.61	0.01		586	
17.00	18.00	Core			SWR										2.71		2.73						0.52	0.01		593	
18.00	19.00	Core			SWR										2.73		2.73						0.44	0.00		602	






Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat : Long		19.853650 72.767329		TABLE - 2 Borehole - P33						
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock				
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs		Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
0.00	0.50	DS	Clay of High Plasticity		CH	0	11	35	54	68	29	39														
1.50	1.95	SPT		CH	1	12	34	53	66	26	40															
2.00	3.00	Core	Completely Weathered Rock recovered in Granular pieces		CWR								1.76		2.68							4.69	0.34			
3.00	4.00	Core			CWR									1.77		2.68							4.31	0.34		
4.00	5.00	Core			CWR										1.85		2.68							4.05	0.31	
5.00	6.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR								1.94		2.69							3.94	0.28		6	
6.00	7.00	Core			HWR										1.98		2.69							3.72	0.26	
7.00	8.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR								2.04		2.70							3.46	0.24		57	
8.00	9.00	Core			HWR										2.23		2.70							3.10	0.17	









Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat : Long		19.853650 72.767329		TABLE - 2 Borehole - P33						
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
9.00	10.00	Core	Moderately Weathered Rock of Moderately Strong in Strength		MWR								2.31		2.70							2.74	0.14		243		
10.00	11.00	Core	Slightly Weathered Rock of Strong in Strength		SWR									2.39		2.71							2.41	0.12		505	
11.00	12.00	Core			SWR										2.48		2.71						1.96	0.08		523	
12.00	13.00	Core			SWR										2.55		2.71						1.63	0.06		536	
13.00	14.00	Core	Fresh Rock of Strong in Strength		FR									2.55		2.72							1.44	0.06		548	
14.00	15.00	Core			FR										2.61		2.72						1.27	0.04		559	
15.00	16.00	Core	Slightly Weathered Rock of Strong in Strength		SWR									2.63		2.71							1.16	0.03		572	
16.00	17.00	Core			SWR										2.65		2.71						1.03	0.02		589	
17.00	18.00	Core			SWR										2.67		2.71						0.97	0.01		597	
18.00	19.00	Core			SWR										2.69		2.71						0.88	0.01		608	






Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat : Long		19.853854 72.767104		TABLE - 2 Borehole - P34						
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock				
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs		Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
0.00	0.50	DS	Clay of Medium Plasticity		CI	1	13	38	48	47	21	26														
1.50	1.95	SPT		CI	0	12	39	49	48	23	25															
2.00	3.00	Core	Completely Weathered Rock recovered in Granular pieces		CWR								1.77		2.68							4.46	0.34			
3.00	4.00	Core			CWR									1.79		2.68							4.21	0.33		
4.00	5.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR								1.96		2.69							3.95	0.27			
5.00	6.00	Core			HWR									1.99		2.69							3.74	0.26		10
6.00	7.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR								2.07		2.69							3.63	0.23		12	
7.00	8.00	Core			HWR									2.11		2.70							3.52	0.22		55
8.00	9.00	Core			HWR								2.18		2.70							3.31	0.19		140	










Vishwas Geotech Pvt. Ltd. Ahmedabad						SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat : Long		19.853854 72.767104		TABLE - 2 Borehole - P34						
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock						
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs		Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27		
9.00	10.00	Core	Moderately Weathered Rock of Moderately Strong in Strength		MWR								2.32		2.70							3.01	0.14		142			
10.00	11.00	Core			MWR										2.44		2.70						2.84	0.10		512		
11.00	12.00	Core	Slightly Weathered Rock of Strong in Strength		SWR									2.51		2.71						1.76	0.07		550			
12.00	13.00	Core			SWR										2.56		2.71						1.30	0.06		578		
13.00	14.00	Core	Fresh Rock of Strong in Strength		FR									2.59		2.72						1.06	0.05		601			
14.00	15.00	Core			FR										2.61		2.72						0.91	0.04		642		
15.00	16.00	Core	Slightly Weathered Rock of Strong in Strength		SWR									2.62		2.73						1.12	0.04		668			
16.00	17.00	Core			SWR										2.64		2.73						1.07	0.03		687		
17.00	18.00	Core			SWR										2.66		2.73						1.02	0.03		690		
18.00	19.00	Core			SWR										2.67		2.73						0.99	0.02		701		






Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat : Long		19.854057 72.766879		TABLE - 2 Borehole - P35						
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock				
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm²)	Modulus of Elasticity
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
0.00	0.50	DS	Clay of Medium Plasticity		CI	0	21	36	43	48	26	22														
1.50	1.95	SPT	Completely Weathered Rock Recovered in Residual Form		CWR	26	66		8	NP	NP	NP														
2.00	3.00	Core		CWR	38	55		7	NP	NP	NP															
3.00	4.00	Core		CWR	36	59		5	NP	NP	NP															
4.00	5.00	Core		CWR	32	65		3	NP	NP	NP															
5.00	6.00	Core		CWR	31	67		2	NP	NP	NP															
6.00	7.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR								2.08		2.69							3.87	0.23		6	
7.00	8.00	Core		HWR										2.10		2.69							3.74	0.22		7
8.00	9.00	Core		HWR										2.12		2.69								3.62	0.21	
















Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat : 19.854057 Long 72.766879		TABLE - 2 Borehole - P35										
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock							
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27			
9.00	10.00	Core	Highly Weathered Rock of Weak in Strength		HWR								2.13		2.70							3.55	0.21		23				
10.00	11.00	Core			HWR									2.19		2.70							3.48	0.19		38			
11.00	12.00	Core	Moderately Weathered Rock of Moderately Weak in Strength		MWR									2.33		2.71							3.26	0.14		59			
12.00	13.00	Core			MWR										2.39		2.71							3.08	0.12		72		
13.00	14.00	Core			MWR										2.43		2.71							2.85	0.10		96		
14.00	15.00	Core	Slightly Weathered Rock of Moderately Strong in Strength		SWR									2.47		2.72								2.74	0.09		195		
15.00	16.00	Core			SWR										2.51		2.72								2.63	0.08		263	
16.00	17.00	Core			SWR										2.56		2.72								2.41	0.06		372	
17.00	18.00	Core	Slightly Weathered Rock of Strong in Strength		SWR									2.61		2.73									2.11	0.04		497	
18.00	19.00	Core			SWR										2.64		2.73									1.92	0.03		561





Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat:	19.854257		TABLE - 2							
																	Long:		72.7666510				Borehole - P36				
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs		Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
0.00	0.50	DS	Clay of Medium Plasticity		CI	0	25	35	40	48	27	21															
1.50	1.95	SPT	Completely Weathered Rock Recovered in Residual Form		CWR	25	65		10	NP	NP	NP															
3.00	3.45	SPT			CWR	40	55		5	NP	NP	NP															
4.50	4.95	SPT			CWR	35	59		6	NP	NP	NP															
5.00	5.45	SPT			CWR	30	67		3	NP	NP	NP															
6.00	7.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR								2.07		2.69							3.89	0.23		8		
7.00	8.00	Core			HWR									2.08		2.69							3.85	0.23		9	
8.00	9.00	Core			HWR									2.10		2.69							3.80	0.22		11	
9.00	10.00	Core	Highly Weathered Rock of Weak in Strength		HWR								2.15		2.70							3.72	0.20		20		












Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.854257 Long: 72.7666510		TABLE - 2 Borehole - P36								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit					Specific Gravity G <sub>s</sub>	Shear Parameters				Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture W <sub>n</sub> %	Cohesion kg/sq.cm.		Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
10.00	11.00	Core	Highly Weathered Rock of Weak in Strength		HWR								2.22		2.70							3.68	0.18		35		
11.00	12.00	Core	Moderately Weathered Rock of Moderately Weak in Strength		MWR									2.35		2.71							3.50	0.13		53	
12.00	13.00	Core			MWR										2.38		2.71						3.35	0.12		65	
13.00	14.00	Core			MWR										2.41		2.71						2.90	0.11		70	
14.00	15.00	Core	Slightly Weathered Rock of Moderately Strong in Strength		SWR									2.45		2.72							2.79	0.10		190	
15.00	16.00	Core			SWR										2.52		2.72						2.55	0.07		245	
16.00	17.00	Core			SWR										2.58		2.73						2.30	0.05		330	
17.00	18.00	Core	Slightly Weathered Rock of Strong in Strength		SWR									2.60		2.73							2.08	0.05		512	
18.00	19.00	Core			SWR										2.63		2.73						1.98	0.04		575	





Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat: 19.854458 Long: 72.766423		TABLE - 2 Borehole - P37								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock				
1	2	3				4	5	6	7	8	9	10				11	12	13		14	15	16	17	18	19	20
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index	Dry Density gm/cc	Natural Moisture W <sub>n</sub> %	Specific Gravity G <sub>s</sub>	Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity
0.00	0.50	DS	Clay of High Plasticity		CH	0	8	39	53	67	32	35														
1.50	1.95	SPT			CH	0	10	40	50	65	30	35														
3.00	3.45	Core	Completely Weathered Rock Recovered in Granular Form		CWR																					
4.00	5.00	Core			CWR									1.83		2.68								4.33	0.32	
5.00	6.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR								1.89		2.68								3.86	0.29		7
6.00	7.00	Core			HWR									1.90		2.68								3.81	0.29	
7.00	8.00	Core	Highly Weathered Rock of Weak in Strength		HWR								1.95		2.69								3.74	0.28		32
8.00	9.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR								2.03		2.70								3.51	0.25		59
9.00	10.00	Core			HWR									2.18		2.70								3.39	0.19	









Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.854458 Long: 72.766423		TABLE - 2 Borehole - P37								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture W n %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
10.00	11.00	Core	Moderately Weathered Rock of Moderately Strong in Strength		MWR								2.23		2.71							3.07	0.18		157		
11.00	12.00	Core			MWR										2.39		2.71						2.87	0.12		269	
12.00	13.00	Core	Slightly Weathered Rock of Moderately Strong in Strength		SWR									2.42		2.72							2.52	0.11		321	
13.00	14.00	Core			SWR										2.48		2.72						2.39	0.09		387	
14.00	15.00	Core			SWR										2.51		2.72						2.15	0.08		409	
15.00	16.00	Core	Slightly Weathered Rock of Strong in Strength		SWR									2.54		2.73							1.92	0.07		446	
16.00	17.00	Core			SWR										2.57		2.73						1.83	0.06		483	
17.00	18.00	Core			SWR										2.59		2.73						1.64	0.05		530	
18.00	19.00	Core			SWR										2.62		2.73						1.47	0.04		589	








Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat: 19.854657 Long: 72.766193		TABLE - 2 Borehole - P38								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock				
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs		Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
0.00	0.50	DS	Clay of High Plasticity		CH	0	6	41	53	69	31	38														
1.50	1.95	SPT		CH	0	9	40	51	68	32	36															
3.00	3.45	SPT		CH	0	8	39	53	70	32	38															
4.00	5.00	Core	Completely Weathered Rock Recovered in Granular Form		CWR								1.88		2.67							3.97	0.30			
5.00	6.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR									1.92		2.67							3.64	0.28		6
6.00	7.00	Core			HWR										1.98		2.68							3.42	0.26	
7.00	8.00	Core	Highly Weathered Rock of Weak in Strength		HWR									2.14		2.68							3.25	0.20		35
8.00	9.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR									2.38		2.69							3.16	0.12		75
9.00	10.00	Core			HWR										2.41		2.69							3.04	0.10	







Vishwas Geotech Pvt. Ltd. Ahmedabad					SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat: 19.854657 Long: 72.766193		TABLE - 2 Borehole - P38								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture W n %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
10.00	11.00	Core	Highly Weathered Rock of Moderately Strong in Strength		HWR								2.44		2.70							2.93	0.10		94		
11.00	12.00	Core			HWR										2.47		2.70							2.75	0.09		121
12.00	13.00	Core	Slightly Weathered Rock of Moderately Strong in Strength		SWR								2.49		2.71							2.63	0.08		253		
13.00	14.00	Core			SWR										2.52		2.71						2.41	0.07		362	
14.00	15.00	Core			SWR										2.54		2.71						2.28	0.06		396	
15.00	16.00	Core			SWR										2.59		2.72						2.16	0.05		451	
16.00	17.00	Core	Slightly Weathered Rock of Strong in Strength		SWR								2.61		2.73							1.97	0.04		493		
17.00	18.00	Core			SWR										2.64		2.73						1.75	0.03		546	
18.00	19.00	Core			SWR										2.67		2.73						1.59	0.02		597	





Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.854858 Long: 72.7659630	TABLE - 2 Borehole - P39								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock				
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture W <sub>n</sub> %	Specific Gravity G <sub>s</sub>		Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
0.00	0.50	DS	Clay of High Plasticity		CH	0	8	41	51	68	31	37														
1.50	1.95	SPT		CH	0	10	40	50	67	31	36															
3.00	3.45	SPT		CH	0	11	39	50	67	32	35															
4.00	5.00	Core	Completely Weathered Rock Recovered in Granular Form		CWR																					
5.00	6.00	Core	Highly Weathered Rock		HWR								1.85		2.67							4.27	0.31			
6.00	7.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR								1.90		2.68							4.08	0.29		10	
7.00	8.00	Core	Highly Weathered Rock of Weak in Strength		HWR								1.98		2.68							3.76	0.26		18	
8.00	9.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR								2.16		2.69							3.38	0.20		65	
9.00	10.00	Core			HWR									2.39		2.69							3.04	0.11		89









Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.854858 Long: 72.7659630		TABLE - 2 Borehole - P39									
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit					Specific Gravity Gs	Shear Parameters				Consolidation Test		For Rock						
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture W n %	Cohesion kg/sq.cm.		Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27		
10.00	11.00	Core	Moderately Weathered Rock of Moderately Strong in Strength		MWR								2.40		2.69							2.89	0.11		180			
11.00	12.00	Core	Highly Weathered Rock of Moderately Strong in Strength		HWR									2.48		2.70							2.63	0.08		170		
12.00	13.00	Core	Slightly Weathered Rock of Moderately Strong in Strength		SWR									2.51		2.70							2.37	0.07		375		
13.00	14.00	Core			SWR										2.53		2.70							2.18	0.06		429	
14.00	15.00	Core			SWR										2.56		2.70							2.06	0.05		497	
15.00	16.00	Core	Slightly Weathered Rock of Strong in Strength		SWR									2.58		2.71							1.93	0.05		525		
16.00	17.00	Core			SWR										2.61		2.72							1.72	0.04		556	
17.00	18.00	Core			SWR										2.63		2.73							1.58	0.04		587	
18.00	19.00	Core			SWR										2.65		2.73							1.42	0.03		615	





Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat: 19.855055 Long: 72.765736		TABLE - 2 Borehole - P40								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock				
1	2	3				4	5	6	Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm				Liquid Limit	Plastic Limit	Plasticity Index		17	18	19	20	21	22	23
0.00	0.50	DS	Clay of High Plasticity		CH	0	7	40	53	69	31	38														
1.50	1.95	SPT		CH	0	6	41	53	68	31	37															
3.00	3.45	Core	Completely Weathered Rock Recovered in Granular Pieces		CWR																					
4.00	5.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR								1.79		2.68						4.56	0.33		5		
5.00	6.00	Core			HWR									1.81		2.68						4.24	0.32		7	
6.00	7.00	Core			HWR									1.84		2.68						4.06	0.31		9	
7.00	8.00	Core			HWR									1.89		2.69						3.87	0.30		12	
8.00	9.00	Core			Highly Weathered Rock of Weak in Strength	HWR								1.94		2.69						3.56	0.28		28	
9.00	10.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR								2.03		2.69						3.15	0.25		56		

S. Navneet

Vishwas Geotech Pvt. Ltd. Ahmedabad










Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.855055 Long: 72.765736		TABLE - 2 Borehole - P40									
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture W n %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock						
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27		
10.00	11.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR								2.36		2.70							2.93	0.13		86			
11.00	12.00	Core	Highly Weathered Rock of Moderately Strong in Strength		HWR									2.41		2.70							2.66	0.11		265		
12.00	13.00	Core			HWR										2.46		2.71							2.41	0.09		337	
13.00	14.00	Core			HWR										2.51		2.71							2.27	0.07		421	
14.00	15.00	Core	Moderately Weathered Rock of Moderately Strong in Strength		MWR									2.53		2.71								1.98	0.07		487	
15.00	16.00	Core			MWR										2.56		2.72								1.65	0.06		539
16.00	17.00	Core	Slightly Weathered Rock of Moderately Strong in Strength		SWR									2.60		2.72								1.52	0.04		567	
17.00	18.00	Core			SWR										2.63		2.72								1.43	0.03		593
18.00	19.00	Core	Slightly Weathered Rock of Strong in Strength	SWR									2.65		2.73								1.30	0.03		607		





Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.855256 Long: 72.765510	TABLE - 2 Borehole - P41								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock				
1	2	3	4	5	6	Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index	Dry Density gm/cc	Natural Moisture W <sub>n</sub> %	Specific Gravity G <sub>s</sub>	Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity
0.00	0.50	DS	Clay of High Plasticity		CH	0	8	39	53	68	28	40														
1.50	1.95	SPT			CH	0	9	36	55	66	27	39														
3.00	3.45	Core	Completely Weathered Rock Recovered in Granular Form		CWR																					
4.00	5.00	Core			CWR									1.78		2.67							4.23	0.33		
5.00	6.00	Core	Highly Weathered Rock of Very Waeak in Strength		HWR								1.85		2.68							4.05	0.31		9	
6.00	7.00	Core			HWR									1.88		2.68							3.83	0.30		12
7.00	8.00	Core	Highly Weathered Rock of Weak in Strength		HWR								1.98		2.69							3.64	0.26		31	
8.00	9.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR								2.08		2.69							3.48	0.23		62	
9.00	10.00	Core			HWR									2.16		2.70							3.21	0.20		78







Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.855256 Long: 72.765510		TABLE - 2 Borehole - P41								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture W n %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
10.00	11.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR								2.33		2.70							2.99	0.14		97		
11.00	12.00	Core			HWR										2.37		2.70						2.71	0.12		122	
12.00	13.00	Core	Highly Weathered Rock of Moderately Strong in Strength		HWR									2.43		2.71							2.43	0.10		363	
13.00	14.00	Core			HWR										2.46		2.71						2.14	0.09		446	
14.00	15.00	Core			HWR										2.51		2.72						1.97	0.08		497	
15.00	16.00	Core	Moderately Weathered Rock of Moderately Strong in Strength		MWR									2.54		2.72							1.83	0.07		526	
16.00	17.00	Core			MWR										2.58		2.72						1.64	0.05		559	
17.00	18.00	Core	Slightly Weathered Rock of Strong in Strength		SWR									2.63		2.73							1.45	0.04		582	
18.00	19.00	Core			SWR										2.66		2.73						1.37	0.03		619	





Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.855461	TABLE - 2							










Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.855461 Long: 72.765286		TABLE - 2 Borehole - P42								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture W n %	Specific Gravity Gs	Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
10.00	11.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR								2.31		2.70							2.82	0.14		105		
11.00	12.00	Core			HWR										2.40		2.70						2.65	0.11		123	
12.00	13.00	Core	Highly Weathered Rock of Moderately Strong in Strength		HWR									2.48		2.71						2.50	0.08		187		
13.00	14.00	Core			HWR										2.53		2.71						2.37	0.07		296	
14.00	15.00	Core			HWR										2.56		2.72						2.18	0.06		354	
15.00	16.00	Core	Moderately Weathered Rock of Moderately Strong in Strength		MWR									2.59		2.72						1.96	0.05		365		
16.00	17.00	Core			MWR										2.62		2.73						1.82	0.04		401	
17.00	18.00	Core			SWR										2.65		2.73						1.64	0.03		466	
18.00	19.00	Core			SWR										2.68		2.73						1.57	0.02		495	





Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.855668 Long: 72.765064	TABLE - 2 Borehole - P43									
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock					
1	2	3	4	5	6	Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index	Dry Density gm/cc	Natural Moisture W <sub>n</sub> %	Specific Gravity G <sub>s</sub>	Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
0.00	0.50	DS	Clay of High Plasticity		CH	0	11	32	57	67	28	39															
1.50	1.95	SPT	Clay of Medium Plasticity		CI	0	16	44	40	47	23	24															
3.00	3.45	Core	Completely Weathered Rock Recovered in Granular Form		CWR																						
4.00	5.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR									1.78		2.68							3.93	0.34		7	
5.00	6.00	Core			HWR										1.84		2.68							3.74	0.31		10
6.00	7.00	Core	Highly Weathered Rock of Weak in Strength		HWR										1.92		2.69							3.52	0.29		23
7.00	8.00	Core			HWR										1.97		2.69							3.36	0.27		38
8.00	9.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR										2.04		2.69							3.12	0.24		63
9.00	10.00	Core			HWR										2.13		2.70							3.06	0.21		86









Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.855668 Long: 72.765064		TABLE - 2 Borehole - P43								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit					Specific Gravity Gs	Shear Parameters				Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture W n %	Cohesion kg/sq.cm.		Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
10.00	11.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR								2.28		2.70							2.88	0.16		103		
11.00	12.00	Core			HWR										2.46		2.70						2.65	0.09		121	
12.00	13.00	Core	Highly Weathered Rock of Moderately Strong in Strength		HWR									2.53		2.71							2.47	0.07		164	
13.00	14.00	Core			HWR										2.57		2.71						2.32	0.05		193	
14.00	15.00	Core			HWR										2.59		2.71						2.21	0.04		288	
15.00	16.00	Core	Moderately Weathered Rock of Moderately Strong in Strength		MWR									2.62		2.72							2.11	0.04		346	
16.00	17.00	Core			MWR										2.63		2.72						1.86	0.03		427	
17.00	18.00	Core			MWR										2.65		2.73						1.64	0.03		462	
18.00	19.00	Core			MWR										2.67		2.73						1.57	0.02		496	





Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.855874 Long: 72.764842	TABLE - 2 Borehole - P44								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock				
1	2	3	4	5	6	Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index	Dry Density gm/cc	Natural Moisture W <sub>n</sub> %	Specific Gravity G <sub>s</sub>	Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity
0.00	0.50	DS	Clay of High Plasticity		CH	0	15	31	54	63	26	37														
1.50	1.95	Core	Completely Weathered Rock Recovered in Granular Form		CWR																					
3.00	3.45	Core			CWR									1.76		2.67							4.51	0.34		
4.00	5.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR								1.79		2.68							3.96	0.33		9	
5.00	6.00	Core			HWR								1.82		2.68							3.74	0.32		12	
6.00	7.00	Core	Highly Weathered Rock of Weak in Strength		HWR								1.85		2.69							3.45	0.31		28	
7.00	8.00	Core			HWR								1.89		2.69							3.22	0.30		43	
8.00	9.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR								1.96		2.70							3.01	0.27		66	
9.00	10.00	Core			HWR								1.99		2.70							2.96	0.26		74	









Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.855874 Long: 72.764842		TABLE - 2 Borehole - P44								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
10.00	11.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR								2.11		2.70							2.73	0.22		92		
11.00	12.00	Core			HWR										2.36		2.70						2.62	0.13		122	
12.00	13.00	Core	Highly Weathered Rock of Moderately Strong in Strength		HWR									2.51		2.71						2.45	0.07		174		
13.00	14.00	Core			HWR										2.56		2.71						2.37	0.06		263	
14.00	15.00	Core			HWR										2.58		2.71						2.10	0.05		385	
15.00	16.00	Core	Moderately Weathered Rock of Moderately Strong in Strength		MWR									2.61		2.72						1.97	0.04		418		
16.00	17.00	Core			MWR										2.63		2.72						1.85	0.03		465	
17.00	18.00	Core			MWR										2.66		2.72						1.62	0.02		493	
18.00	19.00	Core			MWR										2.68		2.73						1.56	0.02		536	





Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates	Lat: 19.856081 Long: 72.764620		TABLE - 2 Borehole - P45											
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock						
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs		Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27		
0.00	0.50	DS	Clay of High Plasticity		CH	0	12	38	50	65	29	36																
1.50	1.95	SPT		CH	0	14	32	54	67	28	39																	
3.00	3.45	SPT	Completely Weathered Rock Recovered in Residual Form		CWR	26	47	27																				
4.00	5.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR									1.78		2.68							4.11	0.34		7		
5.00	6.00	Core			HWR										1.81		2.68							3.82	0.32		10	
6.00	7.00	Core	Highly Weathered Rock of Weak in Strength		HWR									1.96		2.69								3.63	0.27		24	
7.00	8.00	Core			HWR										2.08		2.69								3.51	0.23		36
8.00	9.00	Core			HWR										2.21		2.69									3.22	0.18	
9.00	10.00	Core	Highly Weathered Rock of Moderately Weak in Strength	HWR									2.38		2.70										3.05	0.12		78





Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.856081 Long: 72.764620		TABLE - 2 Borehole - P45								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture W n %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
10.00	11.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR								2.40		2.70							2.82	0.11		93		
11.00	12.00	Core			HWR										2.43		2.70						2.65	0.10		120	
12.00	13.00	Core	Highly Weathered Rock of Moderately Strong in Strength		HWR									2.51		2.71							2.43	0.07		234	
13.00	14.00	Core			HWR										2.55		2.71						2.27	0.06		287	
14.00	15.00	Core			HWR										2.57		2.71						2.02	0.05		325	
15.00	16.00	Core	Moderately Weathered Rock of Moderately Strong in Strength		MWR									2.60		2.72							1.87	0.04		356	
16.00	17.00	Core			MWR										2.63		2.72						1.62	0.03		394	
17.00	18.00	Core			MWR										2.65		2.73						1.51	0.03		451	
18.00	19.00	Core			MWR										2.67		2.73						1.38	0.02		482	





Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates	Lat: 19.856287 Long: 72.764398		TABLE - 2 Borehole - P46								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock				
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs		Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
0.00	0.50	DS	Clay of High Plasticity		CH	0	12	38	50	65	29	36														
1.50	1.95	SPT			CH	0	14	32	54	67	28	39														
3.00	4.00	Core	Completely Weathered Rock Recovered in Residual Form		CWR								1.77		2.66											
4.00	5.00	Core			CWR								1.78		2.67								4.11	0.33		
5.00	6.00	Core			CWR								1.81		2.67								3.88	0.32		
6.00	7.00	Core	Highly Weathered Rock of Weak in Strength		HWR								2.01		2.68							3.74	0.25		9	
7.00	8.00	Core			HWR								2.14		2.68								3.62	0.20		12
8.00	9.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR								2.31		2.69							3.22	0.14		26	
9.00	10.00	Core			HWR								2.35		2.69								3.01	0.13		45







Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.856287 Long: 72.764398		TABLE - 2 Borehole - P46								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit					Specific Gravity Gs	Shear Parameters				Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture W n %	Cohesion kg/sq.cm.		Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
10.00	11.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR								2.39		2.69							2.98	0.11		69		
11.00	12.00	Core			HWR										2.42		2.70						2.84	0.10		90	
12.00	13.00	Core			HWR										2.44		2.70						2.65	0.10		121	
13.00	14.00	Core	Highly Weathered Rock of Moderately Strong in Strength		HWR									2.56		2.70						2.36	0.05		230		
14.00	15.00	Core			HWR										2.57		2.72						2.21	0.06		290	
15.00	16.00	Core	Moderately Weathered Rock of Moderately Strong in Strength		MWR									2.63		2.72						2.02	0.03		351		
16.00	17.00	Core			MWR										2.65		2.73						1.96	0.03		392	
17.00	18.00	Core			MWR										2.67		2.74						1.51	0.03		451	
18.00	19.00	Core			MWR										2.00		2.74						1.21	0.27		489	







Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.856494 Long: 72.764177		TABLE - 2 Borehole - P47							
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock				
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs		Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
0.00	0.50	DS	Clay of High Plasticity		CH	0	12	38	50	65	29	36														
1.50	1.95	SPT		CH	0	14	32	54	67	28	39															
2.00	3.00	Core	completely weathered rock recovered in Residual form		CWR	26	47	27																		
3.00	4.00	Core	Completely weathered rock recovered in Granular form		CWR								1.77													
4.00	5.00	Core			CWR								1.79		2.68							4.11	0.33			
5.00	6.00	Core	Highly weathered rock of weak in strength		HWR								1.81		2.68							3.82	0.32		15	
6.00	7.00	Core			HWR								1.96		2.69							3.63	0.27		24	
7.00	8.00	Core			HWR								2.08		2.69							3.51	0.23		30	
8.00	9.00	Core	Highly weathered rock of Moderate weak in strength		HWR								2.21		2.69							3.22	0.18		59	
9.00	9.00	Core		HWR								2.38		2.70							3.05	0.12		99		










Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.856494 Long: 72.764177		TABLE - 2 Borehole - P47								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
10.00	11.00	Core	Highly weathered rock of Moderate weak in strength		HWR								2.40		2.70							2.82	0.11		119		
11.00	12.00	Core			HWR										2.43		2.70						2.65	0.10		122	
12.00	13.00	Core			HWR										2.51		2.71						2.43	0.07		124	
13.00	14.00	Core			Highly weathered rock of Moderate strong in strength	HWR									2.55		2.71						2.27	0.06		265	
14.00	15.00	Core	HWR											2.57		2.71						2.02	0.05		302		
15.00	16.00	Core	Moderately weathered rock of Moderate strong in strength		MWR								2.60		2.72							1.87	0.04		344		
16.00	17.00	Core			MWR										2.63		2.72						1.62	0.03		388	
17.00	18.00	Core			MWR										2.65		2.73						1.51	0.03		422	
18.00	19.00	Core			MWR										2.67		2.73						1.38	0.02		488	





Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat: 19.8567 Long: 72.763955		TABLE - 2 Borehole - P48								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock				
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs		Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
0.00	0.50	DS	Clay of High Plasticity		CH	0	12	38	50	65	29	36														
1.50	1.95	SPT	Completely weathered rock recovered in granular form		CWR	26	51		23																	
3.00	4.00	Core			CWR	29	48		23																	
4.00	5.00	Core	Highly weathered rock of very weak in strength		HWR								1.78		2.68							4.11	0.34		7	
5.00	6.00	Core			HWR										1.81		2.68							3.82	0.32	
6.00	7.00	Core	Highly weathered rock of weak in strength		HWR								1.96		2.69								3.63	0.27		24
7.00	8.00	Core			HWR										2.08		2.69							3.51	0.23	
8.00	9.00	Core	Highly weathered rock of moderate weak in strength		HWR								2.21		2.69								3.22	0.18		48
9.00	10.00	Core			HWR										2.38		2.70							3.05	0.12	













Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.8567 Long: 72.763955		TABLE - 2 Borehole - P48								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit					Shear Parameters				Consolidation Test		For Rock						
1	2	3	4	5	6	Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index	Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
10.00	11.00	Core	Highly weathered rock of moderate weak in stength		HWR								2.40		2.70							2.82	0.11		93		
11.00	12.00	Core			HWR									2.43		2.70							2.65	0.10		120	
12.00	13.00	Core			Highly weathered rock of Moderate strong in strength	HWR								2.51		2.71							2.43	0.07		234	
13.00	14.00	Core	HWR											2.55		2.71							2.27	0.06		287	
14.00	15.00	Core	HWR											2.57		2.71							2.02	0.05		325	
15.00	16.00	Core	Moderately weathered rock of moderate strong in strength		MWR									2.60		2.72							1.87	0.04		356	
16.00	17.00	Core			MWR									2.63		2.72							1.62	0.03		394	
17.00	18.00	Core			MWR									2.65		2.73							1.51	0.03		451	
18.00	19.00	Core			MWR									2.67		2.73							1.38	0.02		482	







Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.856907 Long: 72.7637330		TABLE - 2 Borehole - P49								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs		Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
0.00	0.50	DS	Clay of high Plasticity		CH	6	12	36	46	55	26	29															
1.50	1.95	SPT			CH	8	14	30	48	58	27	31															
3.00	3.45	SPT	Residual Soil		CWR	12	80	8																			
4.00	5.00	Core	Highly weathered factured rock of weak in strength		HWFR								1.94		2.68							7.80	0.28	2.00	20	9581.12	
5.00	6.00	Core			HWFR									1.95		2.68							7.60	0.27	2.00	28	10695.28
6.00	7.00	Core			HWFR									1.97		2.69							7.30	0.27	2.00	36	11658.68
7.00	8.00	Core	Highly weathered factured rock of moderately weak in strength		HWFR								2.00		2.71							7.00	0.26	2.00	52	13305.51	
8.00	9.00	Core			HWFR									2.01		2.71							6.80	0.26	2.00	63	14292.91









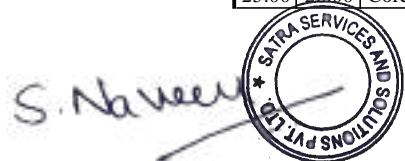
Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.856907 Long: 72.7637330		TABLE - 2 Borehole - P49								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit					Shear Parameters		Consolidation Test	For Rock									
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index						Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
9.00	10.00	Core	Highly weathered rock of moderately weak in strength		HWR								2.03		2.73							6.50	0.26	2.00	78	15509.25	
10.00	11.00	Core			HWR										2.05		2.73						6.30	0.25	2.00	89	16328.13
11.00	12.00	Core			HWR										2.07		2.74						6.00	0.24	2.00	102	17233.10
12.00	13.00	Core			HWR										2.10		2.75						5.80	0.24	2.00	121	18457.57
13.00	14.00	Core	Highly weathered rock of moderately strong in strength		HWR								2.13		2.77							5.50	0.23	2.00	136	19357.62	
14.00	15.00	Core			HWR										2.15		2.77						5.10	0.22	2.00	156	20483.64
15.00	16.00	Core			HWR										2.16		2.78						4.60	0.22	2.00	178	21641.72
16.00	17.00	Core			HWR										2.18		2.79						4.20	0.22	2.00	199	22682.05










Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.856907 Long: 72.7637330		TABLE - 2 Borehole - P49								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
17.00	18.00	Core	Moderately weathered rock of moderately strong in strength		MWR								2.22		2.80							3.70	0.21	4.00	236	24389.33	
18.00	19.00	Core			MWR									2.24		2.82							3.50	0.21	4.00	254	25171.32
19.00	20.00	Core			MWR									2.25		2.82							3.20	0.20	4.00	270	25843.46
20.00	21.00	Core			MWR									2.28		2.84							2.70	0.20	4.00	295	26854.98
21.00	22.00	Core			MWR									2.30		2.84							2.40	0.19	4.00	306	27286.42
22.00	23.00	Core			MWR									2.33		2.85							2.00	0.18	4.00	321	27862.45
23.00	24.00	Core	Slightly weathered rock of moderately strong in strength		SWR								2.40		2.88							1.70	0.17	4.00	346	28793.36	
24.00	25.00	Core			SWR									2.42		2.88							1.40	0.16	4.00	375	29832.01
25.00	26.00	Core			SWR									2.45		2.89							1.10	0.15	6.00	422	31433.46









Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.856998 Long: 72.7635500		TABLE - 2 Borehole - P50								
Depth in mtr.	T <sub>o</sub>	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
0.00	0.50	DS	Clay of high Plasticity		CH	10	9	35	46	57	25	32															
1.50	1.95	SPT	Residual Soil		CH	8	11	36	45	53	25	28															
3.00	3.45	SPT				CWR	18	75	7																		
4.00	5.00	Core	Highly weathered fractured rock of weak in strength		HWFR								1.93		2.69							7.70	0.28	2.00	19	9427.14	
5.00	6.00	Core				HWFR									1.94		2.69						7.60	0.28	2.00	24	10161.53
6.00	7.00	Core				HWFR									1.96		2.69						7.40	0.27	2.00	33	11311.34
7.00	8.00	Core				HWFR									1.97		2.70						7.30	0.27	2.00	39	11991.82
8.00	9.00	Core				HWFR									1.99		2.70						7.00	0.26	2.00	45	12621.68








Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.856998 Long: 72.7635500		TABLE - 2 Borehole - P50								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters			Consolidation Test		For Rock						
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index							Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
9.00	10.00	Core	Highly weathered fractured rock of moderately weak in strength		HWFR								2.02		2.72							6.70	0.26	2.00	60	14032.81	
10.00	11.00	Core			HWFR										2.03		2.72						6.40	0.25	2.00	75	15276.03
11.00	12.00	Core			HWFR										2.05		2.73						6.10	0.25	2.00	89	16328.13
12.00	13.00	Core			HWFR										2.06		2.74						5.70	0.25	2.00	114	18018.47
13.00	14.00	Core	Highly weathered rock of moderately strong in strength		HWR								2.10		2.76							5.20	0.24	2.00	130	19003.87	
14.00	15.00	Core			HWR										2.12		2.76						4.80	0.23	2.00	148	20042.43
15.00	16.00	Core			HWR										2.14		2.77						4.50	0.23	2.00	167	21072.22
16.00	17.00	Core			HWR										2.17		2.78						4.10	0.22	2.00	192	22341.66















Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.856998 Long: 72.7635500		TABLE - 2 Borehole - P50								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs		Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
17.00	18.00	Core	Highly weathered rock of moderately strong in strength		HWR								2.19		2.79							3.80	0.22	2.00	222	23760.26	
18.00	19.00	Core			HWR										2.21		2.80						3.40	0.21	2.00	245	24783.91
19.00	20.00	Core			HWR										2.22		2.80						3.00	0.21	2.00	262	25509.95
20.00	21.00	Core	Moderately weathered rock of moderately strong in strength		MWR									2.26		2.82							2.70	0.20	4.00	287	26536.12
21.00	22.00	Core			MWR										2.27		2.82						2.30	0.20	4.00	311	27479.97
22.00	23.00	Core			MWR										2.32		2.84						1.80	0.18	4.00	337	28462.23
23.00	24.00	Core			MWR										2.35		2.86						1.50	0.18	4.00	364	29442.94
24.00	25.00	Core			MWR										2.38		2.87						1.10	0.17	4.00	390	30353.49









Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.857282 Long: 72.7633300		TABLE - 2 Borehole - P51								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs		Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
0.00	0.50	DS	Clay of high Plasticity		CH	5	13	35	47	56	25	31															
1.50	1.95	SPT			CH	4	10	37	49	55	25	30															
3.00	3.45	SPT	Residual Soil		CWR	13	79	8																			
4.00	5.00	Core	Highly weathered fractured rock of weak in strength		HWFR								1.95		2.67							7.60	0.27	2.00	25	10298.90	
5.00	6.00	Core			HWFR									1.96		2.68							7.40	0.27	2.00	38	11882.24
6.00	7.00	Core			HWFR									1.97		2.70							7.20	0.27	2.00	46	12722.47
7.00	8.00	Core	Highly weathered fractured rock of moderately weak in strength		HWFR								1.99		2.71							6.90	0.27	2.00	56	13675.66	
8.00	9.00	Core			HWFR									2.01		2.71							6.70	0.26	2.00	70	14876.73









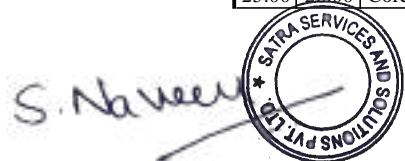
Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.857282 Long: 72.7633300		TABLE - 2 Borehole - P51								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs		Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
9.00	10.00	Core	Highly weathered rock of moderately weak in strength		HWR								2.03		2.72							6.40	0.25	2.00	82	15813.33	
10.00	11.00	Core			HWR									2.04		2.73							6.10	0.25	2.00	93	16613.24
11.00	12.00	Core			HWR									2.06		2.74							5.70	0.25	2.00	111	17826.16
12.00	13.00	Core			HWR									2.09		2.76							5.50	0.24	2.00	123	18580.68
13.00	14.00	Core	Highly weathered rock of moderately strong in strength		HWR								2.14		2.77							5.20	0.23	2.00	139	19531.56	
14.00	15.00	Core			HWR									2.16		2.78							4.90	0.22	2.00	155	20429.12
15.00	16.00	Core			HWR									2.17		2.78							4.60	0.22	2.00	175	21488.19
16.00	17.00	Core			HWR									2.19		2.79							4.30	0.22	2.00	189	22193.88















Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.857282 Long: 72.7633300		TABLE - 2 Borehole - P51								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Consolidation Test	For Rock							
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
17.00	18.00	Core	Moderately weathered rock of moderately strong in strength		MWR								2.20		2.80							4.00	0.21	4.00	223	23805.84	
18.00	19.00	Core			MWR									2.22		2.81							3.70	0.21	4.00	248	24913.83
19.00	20.00	Core			MWR									2.24		2.82							3.30	0.21	4.00	269	25802.04
20.00	21.00	Core			MWR									2.27		2.83							2.90	0.20	4.00	288	26576.22
21.00	22.00	Core			MWR									2.29		2.84							2.50	0.19	4.00	311	27479.97
22.00	23.00	Core			MWR									2.30		2.85							2.10	0.19	4.00	336	28425.17
23.00	24.00	Core	Slightly weathered rock of moderately strong in strength		SWR								2.36		2.87							1.80	0.18	4.00	378	29937.13	
24.00	25.00	Core			SWR									2.39		2.88							1.30	0.17	6.00	402	30763.49
25.00	26.00	Core			SWR									2.42		2.88							1.00	0.16	6.00	431	31729.75








Vishwas Geotech Pvt. Ltd. Ahmedabad					SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat: 19.857982 Long: 72.7625790		TABLE - 2 Borehole - P52									
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Type of Test	Silt Factor	Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	c.c.			p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27		
0.00	0.50	DS	Clay of high Plasticity		CH	0	10	40	50	53	24	29																
1.50	1.95	SPT			CH	2	9	41	48	55	25	30																
3.00	3.45	SPT	Poorly graded silty sand		SPSM	10	80	10		16	NP	NP																
4.50	4.95	SPT			SPSM	12	80	8		17	NP	NP																
6.00	6.45	SPT	Completely weathered rock		CWR	69	23	8																				
7.50	7.95	SPT			CWR	72	21	7																				
8.00	9.00	Core	Highly weathered rock of weak in strength		HWR								2.00		2.69						7.40	0.26	2.00	23	10021.27			
9.00	10.00	Core			HWR								2.02		2.70						7.20	0.25	2.00	31	11070.93			









Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.857982 Long: 72.7625790		TABLE - 2 Borehole - P52								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Type of Test	Silt Factor	Consolidation Test		For Rock				
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	c.c.			p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
10.00	11.00	Core	Highly weathered rock of weak in strength		HWR								2.03		2.70							7.00	0.25	2.00	40	12100.00	
11.00	12.00	Core			HWR									2.05		2.71							6.70	0.24	2.00	48	12920.83
12.00	13.00	Core	Highly weathered rock of moderately weak in strength		HWR									2.07		2.73							6.30	0.24	2.00	60	14032.81
13.00	14.00	Core			HWR										2.09		2.74						6.00	0.24	2.00	77	15432.02
14.00	15.00	Core			HWR										2.11		2.75						5.70	0.23	2.00	91	16471.47
15.00	16.00	Core			HWR										2.13		2.76						5.40	0.23	2.00	105	17433.59
16.00	17.00	Core			HWR									2.14		2.77						5.10	0.23	2.00	120	18395.64	










Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.857982 Long: 72.7625790		TABLE - 2 Borehole - P52								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs		Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
17.00	18.00	Core	Highly weathered rock of moderately strong in strength		HWR								2.19		2.79							4.50	0.22	2.00	138	19473.79	
18.00	19.00	Core			HWR										2.22		2.81						4.10	0.21	2.00	156	20483.64
19.00	20.00	Core			HWR										2.22		2.81						3.80	0.21	4.00	198	22633.79
20.00	21.00	Core	Moderately weathered rock of moderately strong in strength		MWR								2.26		2.83							3.10	0.20	4.00	220	23668.79	
21.00	22.00	Core			MWR										2.28		2.85						2.40	0.20	4.00	245	24783.91
22.00	23.00	Core			MWR										2.32		2.85						2.10	0.19	4.00	289	26616.25
23.00	24.00	Core			MWR										2.35		2.86						1.50	0.18	4.00	314	27595.35








Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.858111 Long: 72.7623560		TABLE - 2 Borehole - P53							
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock				
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs		Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
0.00	0.50	DS	Clay of high Plasticity		CH	5	12	38	45	52	25	27														
1.50	1.95	SPT			CH	4	14	33	49	55	26	29														
3.00	3.45	SPT	Residual Soil mixed with boulders		CWR	15	81	4																		
4.50	4.95	SPT				CWR	18	80	2																	
6.00	6.45	SPT	Completely weathered rock		CWR	75	20	5																		
7.50	7.95	SPT			CWR	72	21	7																		
8.00	9.00	Core	Highly weathered rock of weak in strength		HWR								1.99		2.68							7.10	0.26	2.00	25	10298.90
9.00	10.00	Core			HWR									2.01		2.69						6.90	0.25	2.00	36	11658.68








Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.858111 Long: 72.7623560		TABLE - 2 Borehole - P53								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Type of Test	Silt Factor	Consolidation Test		For Rock				
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	c.c.			p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
10.00	11.00	Core	Highly weathered rock of weak in strength		HWR								2.03		2.70							6.70	0.25	2.00	42	12312.38	
11.00	12.00	Core			HWR									2.04		2.70							6.50	0.24	2.00	49	13018.46
12.00	13.00	Core			HWR									2.06		2.72							6.10	0.24	2.00	62	14206.91
13.00	14.00	Core	Highly weathered rock of moderately weak in strength		HWR									2.07		2.72							5.70	0.24	2.00	80	15662.24
14.00	15.00	Core			HWR									2.09		2.74							5.30	0.24	2.00	93	16613.24
15.00	16.00	Core			HWR									2.11		2.75							4.90	0.23	2.00	110	17761.49
16.00	17.00	Core			HWR									2.13		2.76							4.60	0.23	2.00	122	18519.25






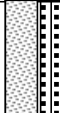




Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.858111 Long: 72.7623560		TABLE - 2 Borehole - P53								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs		Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
17.00	18.00	Core	Highly weathered rock of moderately strong in strength		HWR								2.16		2.78							4.20	0.22	4.00	165	20966.68	
18.00	19.00	Core			HWR										2.19		2.79						3.70	0.22	4.00	187	22094.70
19.00	20.00	Core			HWR										2.19		2.79						3.70	0.22	4.00	187	22094.70
20.00	21.00	Core			HWR										2.21		2.81						3.30	0.21	4.00	206	23016.51
21.00	22.00	Core	Moderately weathered rock of moderately strong in strength		MWR									2.30		2.83							2.70	0.19	4.00	235	24345.02
22.00	23.00	Core			MWR										2.32		2.84						2.10	0.18	4.00	258	25341.29
23.00	24.00	Core			MWR										2.35		2.86						1.80	0.18	4.00	276	26090.35
24.00	25.00	Core			MWR										2.38		2.87						1.30	0.17	4.00	310	27441.39







Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat: 19.858351 Long: 72.7621820		TABLE - 2 Borehole - P54								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock				
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
0.00	0.50	DS	Clay of high Plasticity		CH	3	12	39	46	53	23	30														
1.50	1.95	SPT			CH	4	10	42	44	51	24	27														
3.00	3.45	SPT	Poorly graded silty sand		SPSM	9	82	9		15	NP	NP														
4.50	4.95	SPT			SPSM	5	86	9		16	NP	NP														
6.00	6.45	SPT	Completely weathered rock		CWR	72	22	6																		
7.50	7.95	SPT			CWR	75	21	4																		
8.00	9.00	Core	Highly weathered rock of weak in strength		HWR								2.01		2.70							7.30	0.26	2.00	22	9877.93
9.00	10.00	Core			HWR									2.03		2.70							7.10	0.25	2.00	30








Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.858351 Long: 72.7621820		TABLE - 2 Borehole - P54							
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit					Shear Parameters		Consolidation Test	For Rock								
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index						Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
10.00	11.00	Core	Highly weathered rock of weak in strength		HWR								2.04		2.71							6.80	0.25	2.00	37	11771.22
11.00	12.00	Core			HWR									2.06		2.72						6.60	0.24	2.00	44	12519.76
12.00	13.00	Core			HWR									2.09		2.74						6.10	0.24	2.00	58	13855.77
13.00	14.00	Core	Highly weathered rock of moderately weak in strength		HWR									2.11		2.74						5.70	0.23	2.00	75	15276.03
14.00	15.00	Core			HWR									2.13		2.75						5.40	0.23	2.00	87	16183.18
15.00	16.00	Core			HWR									2.14		2.77						5.10	0.23	2.00	99	17029.63
16.00	17.00	Core			HWR									2.16		2.78						4.80	0.22	2.00	115	18082.01







Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.858351 Long: 72.7621820		TABLE - 2 Borehole - P54									
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock						
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs		Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27		
17.00	18.00	Core	Highly weathered rock of moderately strong in strength		HWR								2.18		2.80							4.60	0.22	2.00	132	19122.68		
18.00	19.00	Core			HWR										2.20		2.81							4.40	0.22	2.00	154	20374.42
19.00	20.00	Core			HWR										2.20		2.81							4.00	0.22	4.00	170	21229.35
20.00	21.00	Core	Moderately weathered rock of moderately strong in strength		MWR									2.25		2.84							3.40	0.21	4.00	203	22873.87	
21.00	22.00	Core			MWR										2.27		2.85							2.70	0.20	4.00	224	23851.31
22.00	23.00	Core			MWR										2.30		2.86							2.10	0.20	4.00	274	26008.35
23.00	24.00	Core			MWR										2.33		2.86							1.60	0.19	4.00	307	27325.26







Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat: 19.858464 Long: 72.762060		TABLE - 2 Borehole - P55								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock				
1	2	3				4	5	6	Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm				Liquid Limit	Plastic Limit	Plasticity Index		17	18	19	20	c.c.	p.c. kg/sq.cm.	23
0.00	0.50	DS	Clay of High Plasticity		CH	1	18	25	56	64	29	35														
1.50	1.95	SPT			CH	0	15	34	51	61	29	32														
3.00	3.45	SPT	Poorly graded silty sand		SPSM	13	78	9		NP	NP	NP														
4.00	5.00	Core	Highly weathered rock of Very weak in strength		HWR								2.00		2.67						4.02	0.25		5		
5.00	6.00	Core			HWR									2.02		2.67						3.87	0.24		5	
6.00	7.00	Core			HWR									2.05		2.67						3.85	0.23		7	
7.00	8.00	Core			HWR									2.07		2.68						3.71	0.23		10	
8.00	9.00	Core	Highly weathered rock of weak in strength		HWR								2.12		2.68						3.68	0.21		15		
9.00	10.00	Core			HWR									2.15		2.69						3.50	0.20		26	




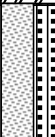






Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.858464 Long: 72.762060		TABLE - 2 Borehole - P55								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit					Specific Gravity Gs	Shear Parameters				Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture W n %	Cohesion kg/sq.cm.		Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
10.00	11.00	Core	Highly weathered rock of weak in strength		HWR								2.19		2.69							3.40	0.19		45		
11.00	12.00	Core				HWR									2.23		2.70						3.34	0.17		47	
12.00	13.00	Core				HWR									2.25		2.70						3.21	0.17		75	
13.00	14.00	Core	Highly weathered rock of moderately weak in strength		HWR									2.29		2.70							3.10	0.15		89	
14.00	15.00	Core				HWR									2.31		2.71						2.95	0.15		110	
15.00	16.00	Core				HWR									2.34		2.71						2.75	0.14		125	
16.00	17.00	Core			HWR									2.39		2.72							2.68	0.12		167	
17.00	18.00	Core	Highly weathered rock of moderately strong in strength		HWR									2.42		2.72							2.60	0.11		185	
18.00						HWR																					
19.00	20.00	Core				HWR									2.50		2.72						2.39	0.08		256	






Vishwas Geotech Pvt. Ltd. Ahmedabad						SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat: 19.858671 Long: 72.761839		TABLE - 2 Borehole - P56							
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs		Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
0.00	0.50	DS	Clay of High Plasticity		CH	0	10	32	58	60	29	31															
1.50	1.95	SPT		CH	0	11	35	54	58	31	27																
3.00	3.45	SPT	Poorly graded silty sand		SPSM	7	85		8	NP	NP	NP															
4.50	4.95	SPT		SPSM	10	83		7	NP	NP	NP																
6.00	7.00	Core	Highly weathered rock of Very weak in strength		HWR								1.98		2.67							4.15	0.26		10		
7.00	8.00	Core			HWR									2.01		2.67							4.05	0.25		12	
8.00	9.00	Core	Highly weathered rock of weak in strength		HWR								2.10		2.67							3.97	0.21		18		
9.00	10.00	Core			HWR									2.13		2.68							3.85	0.21		22	




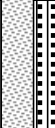






Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.858671 Long: 72.761839		TABLE - 2 Borehole - P56								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
10.00	11.00	Core	Highly weathered rock of weak in strength		HWR								2.17		2.68							3.67	0.19		41		
11.00	12.00	Core			HWR										2.21		2.69						3.55	0.18		48	
12.00	13.00	Core			HWR										2.23		2.69						3.50	0.17		71	
13.00	14.00	Core			HWR										2.26		2.70						3.42	0.16		89	
14.00	15.00	Core	Highly weathered rock of moderately weak in strength		HWR									2.29		2.70							3.36	0.15		110	
15.00	16.00	Core			HWR										2.33		2.70						3.30	0.14		128	
16.00	16.45	SPT			HWR																						
17.00	18.00	Core	Highly weathered rock of moderately strong in strength		HWR									2.37		2.71							3.15	0.13		170	
18.00	19.00	Core			HWR										2.39		2.71						3.10	0.12		210	
19.00	20.00	Core			HWR										2.43		2.71						2.87	0.10		267	








Vishwas Geotech Pvt. Ltd. Ahmedabad						SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat: 19.858877 Long: 72.761617		TABLE - 2 Borehole - P57							
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs		Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
0.00	0.50	DS	Clay of High Plasticity		CH	0	13	35	52	59	28	31															
1.50	1.95	SPT			CH	0	15	38	47	58	29	29															
3.00	3.45	SPT	Poorly graded silty sand		SPSM	9	82	9		NP	NP	NP															
4.50	4.95	SPT			SPSM	10	80	10		NP	NP	NP															
6.00	7.00	Core	Highly weathered rock of Very weak in strength		HWR								2.01	2.67								4.02	0.25		8		
7.00	8.00	Core			HWR									2.04	2.67								3.95	0.24		10	
8.00	9.00	Core			HWR									2.09	2.67								3.86	0.22		12	
9.00	10.00	Core	Highly weathered rock of weak in strength		HWR								2.13	2.68								3.80	0.21		25		




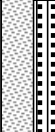






Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.858877 Long: 72.761617		TABLE - 2 Borehole - P57								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture W n %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
10.00	11.00	Core	Highly weathered rock of weak in strength		HWR								2.17		2.68							3.60	0.19		38		
11.00	12.00	Core			HWR										2.20		2.69						3.51	0.18		45	
12.00	13.00	Core			HWR										2.23		2.69						3.48	0.17		68	
13.00	14.00	Core			HWR										2.25		2.70						3.40	0.17		79	
14.00	15.00	Core	Highly weathered rock of moderately weak in strength		HWR								2.28		2.70							3.35	0.16		99		
15.00	16.00	Core			HWR										2.31		2.70						3.30	0.14		107	
16.00	17.00	Core			HWR										2.34		2.71						3.24	0.14		115	
17.00	18.00	Core			HWR										2.37		2.71						3.18	0.13		145	
18.00	19.00	Core	Highly weathered rock of moderately strong in strength		HWR																						
19.00	20.00	Core			HWR										2.45		2.71						3.01	0.10		210	






Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat: 19.859083 Long: 72.761395		TABLE - 2 Borehole - P58								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock				
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
0.00	0.50	DS	Clay of High Plasticity		CH	1	15	33	51	61	29	32														
1.50	1.95	SPT			CH	0	16	35	49	60	29	31														
3.00	3.45	SPT	Poorly graded silty sand		SPSM	5	85		10	NP	NP	NP														
4.50	4.95	SPT			SPSM	9	80		11	NP	NP	NP														
6.00	7.00	Core	Highly weathered rock of Very weak in strength		HWR								2.03		2.67							3.98	0.24		7	
7.00	8.00	Core			HWR									2.05		2.67							3.91	0.23		9
8.00	9.00	Core			HWR									2.09		2.67							3.88	0.22		11
9.00	10.00	Core	Highly weathered rock of weak in strength		HWR								2.15		2.67							3.81	0.19		22	

S. Navneet









Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.859083 Long: 72.761395		TABLE - 2 Borehole - P58								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
10.00	11.00	Core	Highly weathered rock of weak in strength		HWR								2.19		2.68							3.61	0.18		35		
11.00	12.00	Core			HWR										2.23		2.68						3.50	0.17		42	
12.00	13.00	Core			HWR										2.25		2.69						3.42	0.16		72	
13.00	14.00	Core			HWR										2.27		2.69						3.37	0.16		85	
14.00	15.00	Core	Highly weathered rock of moderately weak in strength		HWR									2.29		2.69							3.32	0.15		99	
15.00	16.00	Core			HWR										2.30		2.70						3.28	0.15		105	
16.00	17.00	Core			HWR										2.34		2.70						3.22	0.13		124	
17.00	17.45	SPT			HWR																						
18.00	19.00	Core	Highly weathered rock of moderately strong in strength		HWR									2.39		2.71							3.13	0.12		185	
19.00	20.00	Core			HWR										2.42		2.71						3.04	0.11		221	







Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates	Lat: 19.859291 Long: 72.761175		TABLE - 2 Borehole - P59										
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock					
1	2	3	4	5	6	Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % -0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index	Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm²)	Modulus of Elasticity	
0.00	0.50	DS	Clay of High Plasticity		CH	0	5	38	57	65	31	34															
1.50	1.95	SPT	Completely Weathered Rock Recovered in Residual Form		CWR	5	79		16	NP	NP	NP															
3.00	3.45	SPT			CWR	8	81		11	NP	NP	NP															
4.00	5.00	Core			CWR	11	80		9	NP	NP	NP															
5.00	6.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR								2.01		2.67							4.25	0.25		8		
6.00	7.00	Core			HWR										2.05		2.67						4.11	0.23		10	
7.00	8.00	Core	Highly weathered rock of weak in strength		HWR								2.08		2.67							4.02	0.22		15		
8.00	9.00	Core			HWR										2.11		2.67						3.97	0.21		25	
9.00	10.00	Core			HWR										2.13		2.67						3.85	0.20		28	









Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.859291 Long: 72.761175		TABLE - 2 Borehole - P59									
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit					Specific Gravity Gs	Shear Parameters				Consolidation Test		For Rock						
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture W n %	Cohesion kg/sq.cm.		Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27		
10.00	11.00	Core	Highly weathered rock of weak in strength		HWR								2.16		2.68							3.65	0.19		33			
11.00	12.00	Core			HWR										2.18		2.68							3.52	0.19		35	
12.00	13.00	Core			HWR										2.21		2.68							3.45	0.18		38	
13.00	14.00	Core			HWR										2.22		2.68							3.41	0.17		41	
14.00	15.00	Core			HWR										2.24		2.69							3.38	0.17		43	
15.00	16.00	Core			HWR										2.26		2.69							3.33	0.16		45	
16.00	17.00	Core			HWR										2.29		2.69							3.25	0.15		49	
17.00	18.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR								2.31		2.70							3.10	0.14		78			
18.00	19.00	Core			HWR																							
19.00	20.00	Core			HWR										2.35		2.71							2.91	0.13		122	







Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat: 19.859497 Long: 72.760952		TABLE - 2 Borehole - P60								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock				
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % -0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm²)	Modulus of Elasticity
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
0.00	0.50	DS	Clay of High Plasticity		CH	0	8	35	57	63	30	33														
1.50	1.95	SPT	Completely Weathered Rock Recovered in Residual Form		CWR	9	78		13	NP	NP	NP														
3.00	3.45	SPT			CWR	11	80		9	NP	NP	NP														
4.00	5.00	Core	Completely Weathered Rock Recovered in Granular Pieces		CWR																					
5.00	6.00	Core	Highly Weathered Rock of Very Weak in Strength	HWR									2.03		2.67							4.05	0.24		7	
6.00	7.00	Core		HWR										2.05		2.67						3.90	0.23		11	
7.00	8.00	Core	Highly weathered rock of weak in strength	HWR									2.09		2.67							3.88	0.22		18	
8.00	9.00	Core		HWR										2.13		2.68						3.81	0.21		22	
9.00	10.00	Core		HWR										2.15		2.68						3.70	0.20		25	







Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.859497 Long: 72.760952		TABLE - 2 Borehole - P60								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
10.00	11.00	Core	Highly weathered rock of weak in strength		HWR								2.17		2.68							3.60	0.19		29		
11.00	12.00	Core			HWR										2.19		2.68						3.58	0.18		34	
12.00	13.00	Core			HWR										2.22		2.68						3.41	0.17		39	
13.00	14.00	Core			HWR										2.25		2.69						3.35	0.16		40	
14.00	15.00	Core			HWR										2.26		2.69						3.30	0.16		43	
15.00	16.00	Core			HWR										2.28		2.69						3.25	0.15		46	
16.00	17.00	Core			HWR										2.31		2.70						3.11	0.14		48	
17.00	17.45	SPT			HWR																						
18.00	19.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR								2.35		2.71							2.98	0.13		75		
19.00	20.00	Core			HWR										2.37		2.71						2.95	0.13		108	







Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat: 19.859702 Long: 72.760731		TABLE - 2 Borehole - P61									
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock					
1	2	3	4	5	6	Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % -0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index	Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm²)	Modulus of Elasticity	
0.00	0.50	DS	Clay of High Plasticity		CH	0	12	30	58	65	31	34															
2.00	2.45	SPT	Completely Weathered Rock Recovered in Residual Form		CWR	5	85	10		NP	NP	NP															
3.00	3.45	SPT			CWR	9	84	7		NP	NP	NP															
4.00	5.00	Core	Completely Weathered Rock Recovered in Granular Pieces		CWR																						
5.00	6.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR									2.01	2.67								4.38	0.25		8	
6.00	7.00	Core			HWR										2.03	2.67								4.15	0.24		12
7.00	8.00	Core		HWR										2.07	2.68								3.96	0.23		21	
8.00	9.00	Core	Highly weathered rock of weak in strength	HWR									2.11	2.68									3.88	0.21		22	
9.00	10.00	Core		HWR										2.13	2.68									3.72	0.21		25







Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.859702 Long: 72.760731		TABLE - 2 Borehole - P61									
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock						
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27		
10.00	11.00	Core	Highly weathered rock of weak in strength		HWR								2.15		2.68							3.58	0.20		30			
11.00	12.00	Core			HWR										2.18		2.69							3.41	0.19		32	
12.00	13.00	Core			HWR										2.21		2.69							3.33	0.18		35	
13.00	14.00	Core			HWR										2.24		2.69							3.25	0.17		38	
14.00	15.00	Core			HWR										2.26		2.70							3.10	0.16		40	
15.00	16.00	Core			HWR										2.29		2.70							2.95	0.15		42	
16.00	16.45	SPT			HWR																							
17.00	18.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR								2.34		2.71								2.75	0.14		49		
18.00	19.00	Core			HWR										2.36		2.71							2.60	0.13		82	
19.00	20.00	Core			HWR										2.40		2.71							2.55	0.11		115	







Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat: 19.859906 Long: 72.760506		TABLE - 2 Borehole - P62									
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock					
1	2	3	4	5	6	Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index	Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm²)	Modulus of Elasticity	
0.00	0.50	DS	Clay of High Plasticity		CH	0	10	31	59	65	30	35															
2.00	2.45	SPT	Completely Weathered Rock Recovered in Residual Form		CWR	10	85		5	NP	NP	NP															
3.00	3.45	SPT			CWR	15	81		4	NP	NP	NP															
4.00	5.00	Core	Completely Weathered Rock Recovered in Granular Pieces		CWR																						
5.00	6.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR								2.02		2.67							4.15	0.24		10		
6.00	7.00	Core		HWR										2.04		2.67							4.05	0.24		12	
7.00	8.00	Core	Highly weathered rock of weak in strength		HWR								2.07		2.68							3.91	0.23		25		
8.00	9.00	Core		HWR										2.10		2.68							3.85	0.22		27	
9.00	10.00	Core		HWR										2.14		2.68							3.70	0.20		30	







Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.859906 Long: 72.760506		TABLE - 2 Borehole - P62									
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit					Specific Gravity Gs	Shear Parameters				Consolidation Test		For Rock						
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture W n %	Cohesion kg/sq.cm.		Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27		
10.00	11.00	Core	Highly weathered rock of weak in strength		HWR								2.16		2.68							3.58	0.19		33			
11.00	12.00	Core			HWR										2.19		2.68							3.41	0.18		35	
12.00	13.00	Core			HWR										2.22		2.68							3.33	0.17		38	
13.00	14.00	Core			HWR										2.25		2.69							3.25	0.16		40	
14.00	15.00	Core			HWR										2.27		2.69							3.10	0.16		42	
15.00	16.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR								2.29		2.69							2.95	0.15		45			
16.00	17.00	Core			HWR										2.30		2.70							2.80	0.15		72	
17.00	18.00	Core			HWR										2.33		2.70							2.75	0.14		85	
18.00	19.00	Core			HWR																							
19.00	20.00	Core			HWR										2.37		2.71							2.55	0.13		135	






Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat: 19.86011 Long: 72.760281		TABLE - 2 Borehole - P63								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit					Specific Gravity Gs	Shear Parameters				Consolidation Test		For Rock				
1	2	3	4	5	6	Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index	Dry Density gm/cc	Natural Moisture Wn %		Cohesion kg/sq.cm.	Degree	Type of Test		Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm²)
0.00	0.50	DS	Clay of High Plasticity		CH	0	13	35	52	66	31	35														
2.00	2.45	SPT	Completely Weathered Rock Recovered in Residual Form		CWR	12	80	8		NP	NP	NP														
3.00	3.45	SPT			CWR	12	81	7		NP	NP	NP														
4.00	5.00	Core	Completely Weathered Rock Recovered in Granular Pieces		CWR									1.85	2.67							4.45	0.31			
5.00	6.00	Core		CWR										1.88	2.67							4.35	0.30			
6.00	7.00	Core	Highly Weathered Rock of Very Weak in Strength	HWR									2.01	2.67							4.21	0.25		5		
7.00	8.00	Core		HWR										2.04	2.67							4.05	0.24		7	
8.00	9.00	Core		HWR										2.07	2.68							3.91	0.23		8	
9.00	10.00	Core		HWR										2.08	2.68							3.88	0.22		10	







Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.86011 Long: 72.760281		TABLE - 2 Borehole - P63								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit					Specific Gravity Gs	Shear Parameters				Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture Wn %	Cohesion kg/sq.cm.		Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
10.00	11.00	Core	Highly weathered rock of weak in strength		HWR								2.13		2.68							3.58	0.21		17		
11.00	12.00	Core			HWR										2.15		2.68						3.41	0.20		22	
12.00	13.00	Core			HWR										2.18		2.68						3.33	0.19		29	
13.00	14.00	Core			HWR										2.22		2.69						3.25	0.17		35	
14.00	15.00	Core			HWR										2.25		2.69						3.10	0.16		44	
15.00	16.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR									2.27		2.69							2.95	0.16		65	
16.00	16.45	SPT			HWR																						
17.00	18.00	Core			HWR										2.31		2.70						2.75	0.14		102	
18.00					HWR										2.33		2.71						2.60	0.14		125	
19.00	20.00	Core			HWR										2.35		2.71						2.55	0.13		145	





Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat: 19.860314 Long: 72.760057		TABLE - 2 Borehole - P64								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit					Specific Gravity Gs	Shear Parameters				Consolidation Test		For Rock				
1	2	3	4	5	6	Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index	Dry Density gm/cc	Natural Moisture Wn %		Cohesion kg/sq.cm.	Degree	Type of Test		Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm²)
0.00	0.50	DS	Clay of High Plasticity		CH	0	10	38	52	64	30	34														
2.00	2.45	SPT	Completely Weathered Rock Recovered in Residual Form		CWR	10	81		9	NP	NP	NP														
3.00	3.45	SPT			CWR	15	80		5	NP	NP	NP														
4.00	5.00	Core	Completely Weathered Rock Recovered in Granular Pieces		CWR									1.86	2.67							4.30	0.30			
5.00	6.00	Core	Highly Weathered Rock of Very Weak in Strength	CWR									1.89	2.67							4.15	0.29				
6.00	7.00	Core		HWR										2.02	2.67							3.89	0.24		5	
7.00	8.00	Core		HWR										2.05	2.68							3.70	0.24		7	
8.00	9.00	Core		HWR										2.07	2.68							3.60	0.23		9	
9.00	10.00	Core		HWR										2.09	2.68							3.55	0.22		10	







Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.860314 Long: 72.760057		TABLE - 2 Borehole - P64								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit					Specific Gravity Gs	Shear Parameters				Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture Wn %	Cohesion kg/sq.cm.		Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
10.00	11.00	Core	Highly weathered rock of weak in strength		HWR								2.12		2.69							3.41	0.21		25		
11.00	12.00	Core			HWR										2.15		2.69						3.30	0.20		29	
12.00	13.00	Core			HWR										2.18		2.69						3.25	0.19		33	
13.00	14.00	Core			HWR										2.21		2.69						3.17	0.18		37	
14.00	15.00	Core			HWR										2.24		2.70						3.11	0.17		45	
15.00	16.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR									2.27		2.70							2.99	0.16		72	
16.00	17.00	Core			HWR										2.31		2.70						2.95	0.14		88	
17.00	18.00	Core			HWR										2.33		2.71						2.80	0.14		110	
18.00	19.00	Core			HWR																						
19.00	20.00	Core			HWR										2.38		2.71							2.70	0.12		138







Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat: 19.860517 Long: 72.759832		TABLE - 2 Borehole - P65								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock				
1	2	3				4	5	6	Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm				Liquid Limit	Plastic Limit	Plasticity Index		17	18	19	20	c.c.	p.c. kg/sq.cm.	Water Absorption (%)
0.00	0.50	DS	Clay of High Plasticity		CH	0	15	30	55	68	32	36														
2.00	2.45	SPT	Completely Weathered Rock Recovered in Residual Form		CWR	8	81		11	NP	NP	NP														
3.00	3.45	SPT			CWR	5	80		15	NP	NP	NP														
4.00	5.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR									2.01		2.67					4.20	0.25		7		
5.00	6.00	Core			HWR										2.05		2.67					4.08	0.23		9	
6.00	7.00	Core			HWR										2.07		2.67					3.97	0.22		12	
7.00	8.00	Core	Highly Weathered Rock of Weak in Strength		HWR									2.10		2.68					3.89	0.22		18		
8.00	9.00	Core			HWR										2.13		2.68					3.80	0.21		20	
9.00	10.00	Core			HWR										2.15		2.69					3.75	0.20		22	








Vishwas Geotech Pvt. Ltd. Ahmedabad					SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat: 19.860517 Long: 72.759832		TABLE - 2 Borehole - P65									
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit					Specific Gravity Gs	Shear Parameters				Consolidation Test		For Rock						
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture W n %	Cohesion kg/sq.cm.		Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27		
10.00	11.00	Core	Highly weathered rock of weak in strength		HWR								2.17		2.69							3.45	0.19		27			
11.00	12.00	Core			HWR										2.19		2.69							3.30	0.19		30	
12.00	13.00	Core			HWR										2.20		2.69							3.22	0.18		35	
13.00	14.00	Core			HWR										2.23		2.70							3.20	0.17		41	
14.00	15.00	Core	Moderately Weathered Rock of Moderately Weak in Strength		HWR								2.25		2.70							3.15	0.17		69			
15.00	16.00	Core			HWR										2.27		2.70						2.98	0.16		85		
16.00	17.00	Core	Highly Weathered Rock of Weak in Strength		HWR									2.30		2.70							2.90	0.15		45		
17.00	17.45	SPT			HWR																							
18.00	19.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR									2.34		2.71							2.61	0.14		95		
19.00	20.00	Core			HWR										2.35		2.71						2.44	0.13		122		







Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat: 19.860724 Long: 72.7596110		TABLE - 2 Borehole - P66									
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock					
1	2	3	4	5	6	Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index	Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
0.00	0.50	DS	Clay of High Plasticity		CH	0	10	41	49	60	30	30															
1.50	1.95	SPT	Clay of Medium Plasticity		CI	8	22	32	38	45	25	20															
2.00	3.00	Core	Completely Weathered Rock Recovered in Residual Form		CWR								1.78	2.67								4.05	0.33				
3.00	4.00	Core			CWR									1.80	2.67								4.01	0.33			
4.00	5.00	Core	Completely Weathered Rock Recovered in Granular Pieces		CWR									1.81	2.68								3.95	0.32			
5.00	6.00	Core			CWR									1.84	2.68								3.88	0.31			
6.00	7.00	Core	Highly Weathered Rock of Very Weak in Strength	HWR									2.01	2.69								3.75	0.25		7		
7.00	8.00	Core		HWR									2.04	2.70								3.69	0.24		8		
8.00	9.00	Core		HWR									2.07	2.70								3.61	0.23		10		
9.00	9.00	Core		HWR									2.09	2.70								3.55	0.23		11		








Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.860724 Long: 72.7596110		TABLE - 2 Borehole - P66								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
10.00	11.00	Core	Highly Weathered Rock of Weak in Strength		HWR								2.13		2.71							3.50	0.21		15		
11.00	12.00	Core			HWR										2.16		2.71						3.42	0.20		17	
12.00	13.00	Core			HWR										2.19		2.71						3.25	0.19		21	
13.00	14.00	Core			HWR										2.22		2.72						3.10	0.18		25	
14.00	15.00	Core			HWR										2.25		2.72						2.98	0.17		27	
15.00	16.00	Core	Moderately Weathered Rock of Moderately Weak in Strength		MWR								2.29		2.73							2.75	0.16		51		
16.00	17.00	Core	Highly Weathered Rock of Weak in Strength		HWR									2.31		2.73						2.68	0.15		42		
17.00	18.00	Core			HWR										2.33		2.73						2.60	0.15		45	
18.00	19.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR																						
19.00	20.00	Core			HWR										2.37		2.74						2.30	0.14		57	







Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat: 19.860931 Long: 72.7593890		TABLE - 2 Borehole - P67								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock				
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs		Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
0.00	0.50	DS	Clay of High Plasticity		CH	0	10	41	49	58	30	28														
1.50	1.95	SPT			CH	0	12	32	56	66	32	34														
3.00	3.45	SPT	Completely Weathered Rock Recovered in Residual Form		CWR	25	70	5																		
4.00	5.00	Core	Completely Weathered Rock Recovered in Granular Pieces		CWR								1.83		2.67							4.10	0.31			
5.00	6.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR								2.04		2.68								3.75	0.24		2
6.00	7.00	Core			HWR								2.11		2.69								3.67	0.22		5
7.00	8.00	Core			HWR								2.18		2.71								3.55	0.20		7
8.00	9.00	Core			HWR								2.12		2.69								3.60	0.21		9
9.00	10.00	Core			HWR								2.15		2.72								3.50	0.21		11














Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.860931 Long: 72.7593890		TABLE - 2 Borehole - P67								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
10.00	11.00	Core	Highly Weathered Rock of Weak in Strength		HWR								2.12		2.71							4.12	0.22		13		
11.00	12.00	Core			HWR										2.17		2.72						2.89	0.20		16	
12.00	13.00	Core			HWR										2.10		2.71						3.20	0.23		15	
13.00	14.00	Core			HWR										2.18		2.70						3.15	0.19		21	
14.00	15.00	Core			HWR										2.21		2.72						2.89	0.19		26	
15.00	16.00	Core	Moderately Weathered Rock of Moderately Weak in Strength		MWR								2.24		2.73							3.01	0.18		52		
16.00	17.00	Core	Highly Weathered Rock of Weak in Strength		HWR									2.30		2.73						2.58	0.16		41		
17.00	17.45	SPT			HWR																						
18.00	19.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR									2.36		2.72						2.40	0.13		55		
19.00	20.00	Core	Strength	HWR									2.32		2.73						3.12	0.15		60			






Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat: 19.861137 Long: 72.7591670		TABLE - 2 Borehole - P68								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock				
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
0.00	0.50	DS	Clay of High Plasticity		CH	0	10	41	49	60	30	30														
1.50	1.95	SPT	Completely Weathered Rock Recovered in Residual Form		CWR	15	80	5																		
3.00	3.45	SPT			CWR	20	74	6																		
4.00	5.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR								1.80		2.65							3.55	0.32		7	
5.00	6.00	Core			HWR									1.82		2.67							3.40	0.32		5
6.00	7.00	Core			HWR									2.07		2.65							3.35	0.22		2
7.00	8.00	Core			HWR									2.05		2.67							3.20	0.23		4
8.00	9.00	Core			HWR									2.07		2.68							3.33	0.23		8
9.00	10.00	Core			HWR								2.10		2.70							3.20	0.22		12	









Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.861137 Long: 72.7591670		TABLE - 2 Borehole - P68								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
10.00	11.00	Core	Highly Weathered Rock of Weak in Strength		HWR								2.12		2.70							3.35	0.21		14		
11.00	12.00	Core			HWR										2.17		2.70						3.22	0.20		20	
12.00	13.00	Core			HWR										2.15		2.71						3.15	0.21		30	
13.00	14.00	Core			HWR										2.20		2.71						2.99	0.19		45	
14.00	15.00	Core	Moderately Weathered Rock of Moderately Weak in Strength		MWR									2.24		2.72						1.80	0.18		52		
15.00	16.00	Core			MWR										2.30		2.73						1.40	0.16		51	
16.00	16.45	SPT	Highly Weathered Rock of Weak in Strength		HWR																						
17.00	18.00	Core			HWR										2.32		2.70						2.65	0.14		25	
18.00	19.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR									2.37		2.72							1.70	0.13		50	
19.00	20.00	Core			HWR										2.42		2.73						1.63	0.11		55	







Vishvas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat: 19.861344 Long: 72.7589450		TABLE - 2 Borehole - P69										
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock						
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27		
0.00	0.50	DS	Clay of High Plasticity		CH	0	10	41	49	60	30	30																
1.50	1.95	SPT			CH	2	8	32	58	67	32	35																
3.00	3.45	SPT	Clay of Medium Plasticity		CI	5	15	32	48	48	25	23																
4.00	5.00	Core	Completely Weathered Rock Recovered in Granular Pieces		CWR								1.82		2.66							3.90	0.32					
5.00	6.00	Core			CWR										1.86		2.68							3.85	0.31			
6.00	7.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR								2.05		2.67								3.70	0.23		6		
7.00	8.00	Core			HWR										2.06		2.69							3.65	0.23		7	
8.00	9.00	Core			HWR										2.08		2.70								3.60	0.23		10
9.00	10.00	Core			HWR										2.12		2.70								3.53	0.21		12





Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.861344 Long: 72.7589450		TABLE - 2 Borehole - P69								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
10.00	11.00	Core	Highly Weathered Rock of Weak in Strength		HWR								2.15		2.71							3.45	0.21		10		
11.00	12.00	Core			HWR										2.14		2.69						3.40	0.20		12	
12.00	13.00	Core			HWR										2.18		2.71						3.32	0.20		17	
13.00	14.00	Core			HWR										2.21		2.72						3.15	0.19		20	
14.00	15.00	Core			HWR										2.23		2.71						2.88	0.18		40	
15.00	16.00	Core			HWR										2.30		2.72						2.70	0.15		45	
16.00	16.45	SPT	Highly Weathered Rock of Moderately Weak in Strength		HWR																						
17.00	18.00	Core			HWR										2.35		2.72						2.61	0.14		52	
18.00	19.00	Core			HWR										2.42		2.72						2.55	0.11		50	
19.00	20.00	Core			HWR										2.51		2.71						2.12	0.07		60	





Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: Long:	19.861551 72.7587240	TABLE - 2 Borehole - P70							
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock				
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs		Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
0.00	0.50	DS	Clay of Medium Plasticity		CI	2	16	32	50	47	25	22														
1.50	1.95	SPT	Completely Weathered Rock Recovered in Granular Pieces		CWR																					
3.00	4.00	Core			CWR									1.80		2.67							3.80	0.33		
4.00	5.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR																				6	
5.00	6.00	Core			HWR																					10
6.00	7.00	Core			HWR																					8
7.00	8.00	Core			HWR																					12
8.00	9.00	Core	Highly Weathered Rock of Weak in Strength		HWR																				15	
9.00	10.00	Core			HWR																					20









Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.861551 Long: 72.7587240		TABLE - 2 Borehole - P70							
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock				
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
10.00	11.00	Core	Highly Weathered Rock of Weak in Strength		HWR								2.17		2.68							3.30	0.19		25	
11.00	12.00	Core			HWR									2.19		2.70						3.20	0.19		50	
12.00	13.00	Core	Moderately Weathered Rock of Moderately Weak in Strength		MWR									2.20		2.71						2.40	0.19		55	
13.00	14.00	Core			MWR										2.27		2.72					1.58	0.17		53	
14.00	15.00	Core			MWR										2.35		2.69					1.69	0.13		61	
15.00	16.00	Core			MWR										2.30		2.67					2.35	0.14		67	
16.00	17.00	Core	Highly Weathered Rock of Weak in Strength		HWR									2.37		2.71						2.20	0.13		47	
17.00	17.45	SPT			HWR																					
18.00	19.00	Core			HWR										2.39		2.72					1.57	0.12		14	
19.00	20.00	Core			HWR										2.45		2.70					2.58	0.09		12	






Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat: 19.861667 Long: 72.7586010		TABLE - 2 Borehole - P71								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock				
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
0.00	0.50	DS	Clay of High Plasticity		CH	0	10	25	65	60	30	30														
1.50	1.95	SPT	Clay of Medium Plasticity		CI	2	25	34	39	45	25	20														
3.00	3.45	SPT		CI	0	24	32	44	48	26	22															
4.50	4.95	SPT	Completely Weathered Rock Recovered in Residual Form		CWR	10	85	5																		
5.00	6.00	Core			CWR	25	73	2																		
6.00	7.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR								1.87		2.68							3.71	0.30		5	
7.00	8.00	Core			HWR									2.10		2.70							3.64	0.22		7
8.00	9.00	Core			HWR									2.11		2.69							3.59	0.22		12
9.00	10.00	Core			HWR									2.15		2.70							3.40	0.20		10







Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.861667 Long: 72.7586010		TABLE - 2 Borehole - P71								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
10.00	11.00	Core	Highly Weathered Rock of Weak in Strength		HWR								2.10		2.69							4.12	0.22		24		
11.00	12.00	Core			HWR									2.13		2.70							3.25	0.21		13	
12.00	13.00	Core			HWR									2.15		2.70							4.08	0.20		17	
13.00	14.00	Core			HWR									2.20		2.71							4.19	0.19		22	
14.00	15.00	Core			HWR									2.24		2.72							5.02	0.18		38	
15.00	16.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR									2.31		2.71							2.72	0.15		50	
16.00	17.00	Core			HWR									2.28		2.70							2.60	0.16		54	
17.00	18.00	Core			HWR									2.40		2.72							1.55	0.12		64	
18.00	19.00	Core			HWR																						
19.00	20.00	Core			HWR										2.50		2.74							2.12	0.09		61







Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates	Lat: 19.861978 Long: 72.7582950		TABLE - 2 Borehole - P72													
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock								
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs		Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27				
0.00	0.50	DS	Clay of High Plasticity		CH	0	9	40	51	55	31	24																		
1.50	1.95	SPT			CH	0	10	30	60	69	33	36																		
3.00	3.45	SPT	Completely Weathered Rock Recovered in Residual Form		CWR	30	65	5																						
4.00	5.00	Core	Completely Weathered Rock Recovered in Granular Pieces		CWR								1.77		2.67								5.12	0.34						
5.00	6.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR									1.85		2.67								4.18	0.31	-				
6.00	7.00	Core			HWR										1.94		2.68								3.40	0.28	4			
7.00	8.00	Core			HWR											2.05		2.67								3.50	0.23	8		
8.00	9.00	Core		HWR												2.10		2.70								3.62	0.22	10		
9.00	10.00	Core		HWR												2.14		2.71									3.47	0.21	12	









Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.861978 Long: 72.7582950		TABLE - 2 Borehole - P72								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
10.00	11.00	Core	Highly Weathered Rock of Weak in Strength		HWR								2.18		2.69							2.80	0.19		20		
11.00	12.00	Core			HWR										2.15		2.70						4.12	0.20		17	
12.00	13.00	Core			HWR										2.20		2.71						3.89	0.19		23	
13.00	14.00	Core			HWR										2.27		2.72						2.30	0.17		30	
14.00	15.00	Core			HWR										2.35		2.72						2.77	0.14		45	
15.00	16.00	Core	Moderately Weathered Rock of Moderately Weak in Strength		MWR								2.56		2.73							1.89	0.06		54		
16.00	17.00	Core	Highly Weathered Rock of Weak in Strength		HWR									2.15		2.72						2.21	0.21		40		
17.00	18.00	Core			HWR										2.20		2.71						2.30	0.19		43	
18.00	19.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR																						
19.00	20.00	Core			HWR										2.43		2.74						2.27	0.11		55	





Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat: 19.862199 Long: 72.7580910		TABLE - 2 Borehole - P73								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock				
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs		Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
0.00	0.50	DS	Clay of High Plasticity		CH	0	9	40	51	55	31	24														
1.50	1.95	SPT			CH	0	10	30	60	69	33	36														
3.00	3.45	SPT	Completely Weathered Rock Recovered in Granular Pieces		CWR																					
4.00	5.00	Core			CWR									1.80		2.67							4.32	0.33		
5.00	6.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR								1.82		2.68							3.70	0.32		7	
6.00	7.00	Core			HWR									1.85		2.68							3.66	0.31		10
7.00	8.00	Core			HWR									1.89		2.69							3.48	0.30		12
8.00	9.00	Core			HWR									2.12		2.69							3.60	0.21		8
9.00	10.00	Core			HWR									2.17		2.70							3.36	0.20		6









Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.862199 Long: 72.7580910		TABLE - 2 Borehole - P73									
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit					Specific Gravity Gs	Shear Parameters				Consolidation Test		For Rock						
1	2	3	4	5	6	Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index	Dry Density gm/cc	Natural Moisture Wn %	16	17	18	19	20	21	22	23	24	25	26	27		
10.00	11.00	Core	Highly Weathered Rock of Weak in Strength		HWR								2.20		2.70							3.12	0.19		15			
11.00	12.00	Core			HWR									2.18		2.71							3.45	0.20		18		
12.00	13.00	Core			HWR										2.22		2.70							3.33	0.18		27	
13.00	14.00	Core			HWR										2.26		2.72							3.20	0.17		42	
14.00	15.00	Core			HWR										2.30		2.72							2.48	0.15		48	
15.00	16.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR								2.40		2.73							2.34	0.12		57			
16.00	16.45	SPT	Highly Weathered Rock of Weak in Strength		HWR																							
17.00	18.00	Core			HWR									2.37		2.72							2.24	0.13		40		
18.00	19.00	Core			HWR									2.41		2.72							1.80	0.11		42		
19.00	20.00	Core			HWR									2.42		2.71							1.69	0.11		35		






Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat: 19.862423 Long: 72.7578880		TABLE - 2 Borehole - P74								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock				
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs		Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
0.00	0.50	DS	Clay of Medium Plasticity		CI	10	15	27	48	47	24	23														
1.50	1.95	SPT	Completely Weathered Rock Recovered in Granular Pieces		CWR																					
3.00	4.00	Core			CWR									1.80		2.67							4.56	0.33		
4.00	5.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR								1.84		2.68							3.45	0.31		5	
5.00	6.00	Core			HWR									1.85		2.67						3.34	0.31		7	
6.00	7.00	Core			HWR									2.01		2.69						3.20	0.25		10	
7.00	8.00	Core			HWR									2.05		2.70						3.25	0.24		8	
8.00	9.00	Core	Highly Weathered Rock of Weak in Strength		HWR								2.08		2.70						3.35	0.23		15		
9.00	10.00	Core			HWR									2.11		2.71						2.89	0.22		25	









Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.862423 Long: 72.7578880		TABLE - 2 Borehole - P74								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
10.00	11.00	Core	Highly Weathered Rock of Weak in Strength		HWR								2.15		2.68							2.97	0.20		30		
11.00	12.00	Core			HWR									2.18		2.70						3.41	0.19		37		
12.00	13.00	Core	Moderately Weathered Rock of Moderately Weak in Strength		MWR									2.35		2.72						1.88	0.14		54		
13.00	14.00	Core			MWR										2.29		2.71						1.70	0.15			60
14.00	15.00	Core			MWR										2.32		2.72						1.40	0.15			51
15.00	16.00	Core			MWR										2.30		2.73						2.01	0.16			49
16.00	17.00	Core	Highly Weathered Rock of Weak in Strength		HWR									2.12		2.72							2.80	0.22			45
17.00	17.45	SPT			HWR																						
18.00	19.00	Core			HWR										2.20		2.71						2.62	0.19			18
19.00	20.00	Core			HWR										2.35		2.70						2.54	0.13			13






Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat: 19.862566 Long: 72.7577580		TABLE - 2 Borehole - P75									
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock					
1	2	3	4	5	6	Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index	Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
0.00	0.50	DS	Clay of High Plasticity		CH	0	7	25	68	60	30	30															
1.50	1.95	SPT	Clay of Medium Plasticity		CI	4	23	30	43	44	25	19															
3.00	3.45	SPT	Completely Weathered Rock Recovered in Residual Form		CWR	30	66	4																			
4.00	5.00	Core			CWR	27	70	3																			
5.00	6.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR								1.81		2.66							3.80	0.32		7		
6.00	7.00	Core			HWR										1.83		2.67						3.74	0.31		10	
7.00	8.00	Core			HWR										1.85		2.68						3.63	0.31		12	
8.00	9.00	Core			HWR										2.15		2.69						3.55	0.20		8	
9.00	10.00	Core			HWR										2.17		2.68						3.41	0.19		9	








Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.862566 Long: 72.7577580		TABLE - 2 Borehole - P75								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
10.00	11.00	Core	Highly Weathered Rock of Weak in Strength		HWR								2.20		2.70							4.10	0.19		20		
11.00	12.00	Core			HWR									2.25		2.70							3.30	0.17			12
12.00	13.00	Core			HWR									2.28		2.69							4.05	0.15			16
13.00	14.00	Core			HWR									2.30		2.69							4.20	0.14			21
14.00	15.00	Core			HWR									2.32		2.70							3.52	0.14			42
15.00	16.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR									2.35		2.72							2.68	0.14			48
16.00	16.45	SPT			HWR																						
17.00	18.00	Core			HWR									2.42		2.72							1.94	0.11			62
18.00	19.00	Core			HWR									2.39		2.71							1.78	0.12			50
19.00	20.00	Core			HWR									2.45		2.72							2.25	0.10			57






Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat: 19.862869 Long: 72.7574820		TABLE - 2 Borehole - P76									
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock					
1	2	3				4	5	6	Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm				Liquid Limit	Plastic Limit	Plasticity Index		17	18	19	20	21	22	23	24
0.00	0.50	DS	Clay of High Plasticity		CH	2	9	37	52	64	31	33															
1.50	1.95	SPT	Clay of Medium Plasticity		CI	1	20	32	47	44	24	20															
2.00	3.00	Core	Completely Weathered Rock Recovered in Residual Form		CWR								1.75		2.66						5.01	0.34					
3.00	4.00	Core			CWR										1.76		2.67						4.89	0.34			
4.00	5.00	Core	Completely Weathered Rock Recovered in Granular Pieces		CWR									1.77		2.68						4.12	0.34				
5.00	6.00	Core			CWR										1.80		2.69						3.85	0.33			
6.00	7.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR									2.03		2.69						3.70	0.25		8		
7.00	8.00	Core			HWR										2.05		2.69						3.63	0.24		8	
8.00	9.00	Core			HWR										2.10		2.70						3.54	0.22		7	
9.00	9.00	Core			HWR										2.09		2.70						3.40	0.23		10	














Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.862869 Long: 72.7574820		TABLE - 2 Borehole - P76							
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock				
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
10.00	11.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR								2.15		2.71							3.48	0.21		11	
11.00	12.00	Core			HWR									2.17		2.70						3.40	0.20		9	
12.00	13.00	Core	Highly Weathered Rock of Weak in Strength		HWR									2.20		2.70						3.20	0.19		18	
13.00	14.00	Core			HWR										2.23		2.72					3.15	0.18		12	
14.00	15.00	Core			HWR										2.27		2.71					2.95	0.16		24	
15.00	16.00	Core			HWR										2.15		2.70					2.70	0.20		29	
16.00	16.45	SPT			HWR																					
17.00	18.00	Core	HWR											2.32		2.69						2.41	0.14		37	
18.00	19.00	Core	Moderately Weathered Rock of Moderately Weak in Strength	MWR									2.46		2.72						2.14	0.10		48		
19.00	20.00	Core		MWR										2.47		2.73						1.98	0.10		52	







Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat: 19.863092 Long: 72.7572790		TABLE - 2 Borehole - P77									
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
0.00	0.50	DS	Clay of High Plasticity		CH	0	8	40	52	66	32	34															
1.50	1.95	SPT	Completely Weathered Rock Recovered in Residual Form		CWR	30	65	5																			
3.00	3.45	SPT			CWR	45	48	7																			
4.00	5.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR								1.85		2.66							3.54	0.30		3		
5.00	6.00	Core			HWR									1.87		2.66							3.42	0.30		2	
6.00	7.00	Core			HWR									1.89		2.67							3.34	0.29		5	
7.00	8.00	Core			HWR									1.94		2.68							4.02	0.28		7	
8.00	9.00	Core			HWR									2.07		2.67							4.05	0.22		11	
9.00	10.00	Core			HWR								2.12		2.69							3.25	0.21		9		








Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.863092 Long: 72.7572790		TABLE - 2 Borehole - P77								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
10.00	11.00	Core	Highly Weathered Rock of Weak in Strength		HWR								2.15		2.70							3.32	0.20		15		
11.00	12.00	Core			HWR										2.10		2.69						3.20	0.22		17	
12.00	13.00	Core			HWR										2.16		2.71						3.15	0.20		35	
13.00	14.00	Core			HWR										2.22		2.71						2.89	0.18		40	
14.00	15.00	Core			HWR										2.24		2.70						2.40	0.17		45	
15.00	16.00	Core			HWR										2.27		2.72						2.48	0.17		48	
16.00	16.45	SPT	Highly Weathered Rock of Moderately Weak in Strength		HWR																						
17.00	18.00	Core			HWR										2.40		2.71						1.94	0.11		55	
18.00	19.00	Core			HWR										2.34		2.71						1.80	0.14		50	
19.00	20.00	Core			HWR										2.45		2.72						1.40	0.10		60	






Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat: 19.863316 Long: 72.7570760		TABLE - 2 Borehole - P78								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock				
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs		Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
0.00	0.50	DS	Clay of High Plasticity		CH	0	9	40	51	55	29	26														
1.50	1.95	SPT			CH	0	10	29	61	68	32	36														
3.00	3.45	SPT	Completely Weathered Rock Recovered in Residual Form		CWR	27	70	3																		
4.00	5.00	Core			CWR	40	55	5																		
5.00	6.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR								1.85		2.67							5.12	0.31		3	
6.00	7.00	Core			HWR										1.87		2.69						3.89	0.30		7
7.00	8.00	Core			HWR										2.06		2.68						4.10	0.23		10
8.00	9.00	Core			HWR										2.10		2.70						3.65	0.22		12
9.00	10.00	Core			HWR										2.15		2.71						3.50	0.21		9








Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.863316 Long: 72.7570760		TABLE - 2 Borehole - P78								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
10.00	11.00	Core	Highly Weathered Rock of Weak in Strength		HWR								2.11		2.70							3.56	0.22		14		
11.00	12.00	Core			HWR										2.17		2.71						2.80	0.20		16	
12.00	13.00	Core			HWR										2.12		2.72						3.25	0.22		17	
13.00	14.00	Core			HWR										2.18		2.69						2.89	0.19		20	
14.00	15.00	Core			HWR										2.20		2.68						3.17	0.18		35	
15.00	16.00	Core	Moderately Weathered Rock of Moderately Weak in Strength		MWR									2.40		2.72						2.78	0.12		51		
16.00	17.00	Core	Highly Weathered Rock of Weak in Strength		HWR									2.30		2.71						2.55	0.15		40		
17.00	18.00	Core			HWR										2.35		2.72						2.30	0.14		45	
18.00	19.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR																						
19.00	20.00	Core			HWR										2.42		2.73						2.25	0.11		57	








Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat: 19.863463 Long: 72.7569430		TABLE - 2 Borehole - P79									
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
0.00	0.50	DS	Clay of High Plasticity		CH	0	10	35	55	65	30	35															
1.50	1.95	SPT	Clay of Medium Plasticity		CI	4	15	37	44	45	24	21															
3.00	3.45	SPT	Completely Weathered Rock Recovered in Residual Form		CWR	34	62	4																			
4.00	5.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR								1.82		2.67							4.58	0.32		6		
5.00	6.00	Core			HWR									1.85		2.68							5.10	0.31		3	
6.00	7.00	Core			HWR									1.89		2.67							3.90	0.29		5	
7.00	8.00	Core			HWR									2.01		2.66							3.70	0.24		11	
8.00	9.00	Core	Highly Weathered Rock of Weak in Strength		HWR									2.07		2.68							3.66	0.23		14	
9.00	10.00	Core		HWR										2.14		2.70						3.45	0.21		16		









Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.863463 Long: 72.7569430		TABLE - 2 Borehole - P79								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
10.00	11.00	Core	Highly Weathered Rock of Weak in Strength		HWR								2.16		2.71							3.30	0.20		20		
11.00	12.00	Core			HWR										2.18		2.70						2.85	0.19		25	
12.00	13.00	Core			HWR										2.25		2.69						3.11	0.16		30	
13.00	14.00	Core			HWR										2.28		2.70						2.60	0.16		47	
14.00	15.00	Core	Moderately Weathered Rock of Moderately Weak in Strength		MWR								2.38		2.72							2.20	0.13		50		
15.00	16.00	Core			MWR										2.45		2.73						1.89	0.10		52	
16.00	16.45	SPT	Highly Weathered Rock of Moderately Weak in Strength		HWR																						
17.00	18.00	Core			HWR										2.37		2.71						2.08	0.13		60	
18.00	19.00	Core			HWR										2.45		2.72						1.98	0.10		57	
19.00	20.00	Core			HWR										2.50		2.70						1.85	0.07		58	






Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat: 19.863762 Long: 72.7566710		TABLE - 2 Borehole - P80									
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
0.00	0.50	DS	Clay of High Plasticity		CH	4	12	23	61	62	31	31															
1.50	1.95	SPT	Clay of Medium Plasticity		CI	2	20	34	44	42	25	17															
3.00	3.45	SPT		CI	1	17	32	50	47	26	21																
4.50	4.95	SPT	Completely Weathered Rock Recovered in Residual Form		CWR	12	85	3																			
5.00	6.00	Core			CWR	20	75	5																			
6.00	7.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR								1.81		2.67							4.55	0.32		3		
7.00	8.00	Core			HWR									1.90		2.68							3.62	0.29		7	
8.00	9.00	Core			HWR									2.10		2.69							3.45	0.22		10	
9.00	10.00	Core			HWR									2.14		2.67							3.30	0.20		8	









Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.863762 Long: 72.7566710		TABLE - 2 Borehole - P80								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
10.00	11.00	Core	Highly Weathered Rock of Weak in Strength		HWR								2.12		2.68							4.10	0.21		15		
11.00	12.00	Core			HWR										2.09		2.70						3.24	0.23		20	
12.00	13.00	Core			HWR										2.10		2.69						4.15	0.22		18	
13.00	14.00	Core			HWR										2.25		2.71						4.18	0.17		25	
14.00	15.00	Core			HWR										2.30		2.70						5.03	0.15		39	
15.00	16.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR									2.35		2.72							3.02	0.14		51	
16.00	17.00	Core			HWR										2.29		2.72						2.40	0.16		53	
17.00	18.00	Core			HWR										2.42		2.71						1.78	0.11		62	
18.00	19.00	Core			HWR										2.37		2.70						1.82	0.12		55	
19.00	20.00	Core			HWR										2.46		2.72						1.89	0.10		60	







Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat: 19.863985 Long: 72.7564680		TABLE - 2 Borehole - P81								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock				
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs		Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
0.00	0.50	DS	Clay of High Plasticity		CH	0	11	40	49	62	31	31														
1.50	1.95	SPT			CH	0	8	30	62	65	32	33														
3.00	3.45	SPT	Completely Weathered Rock Recovered in Granular Pieces		CWR																					
4.00	5.00	Core			CWR									1.75		2.68							4.31	0.35		
5.00	6.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR								1.82		2.66							3.45	0.32		10	
6.00	7.00	Core			HWR									1.86		2.69							3.60	0.31		8
7.00	8.00	Core			HWR									1.90		2.70							3.50	0.30		7
8.00	9.00	Core			HWR									2.10		2.71							3.62	0.23		10
9.00	10.00	Core			HWR									2.18		2.69							3.36	0.19		11








Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.863985 Long: 72.7564680		TABLE - 2 Borehole - P81								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
10.00	11.00	Core	Highly Weathered Rock of Weak in Strength		HWR								2.25		2.71							3.10	0.17		14		
11.00	12.00	Core			HWR										2.17		2.69						3.40	0.19		20	
12.00	13.00	Core			HWR										2.23		2.70						3.30	0.17		32	
13.00	14.00	Core			HWR										2.30		2.70						3.25	0.15		45	
14.00	15.00	Core			HWR										2.35		2.71						2.47	0.13		39	
15.00	16.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR								2.45		2.72							2.20	0.10		53		
16.00	16.45	SPT	Highly Weathered Rock of Weak in Strength		HWR																						
17.00	18.00	Core			HWR										2.35		2.72						2.24	0.14		40	
18.00	19.00	Core			HWR										2.40		2.73						1.90	0.12		37	
19.00	20.00	Core			HWR								2.38		2.72							1.67	0.13		38		






Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat: 19.864209 Long: 72.7562650		TABLE - 2 Borehole - P72								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock				
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
0.00	0.50	DS	Clay of High Plasticity		CH	0	10	30	60	58	30	28														
1.50	1.95	SPT	Completely Weathered Rock Recovered in Residual Form		CWR	20	73	7																		
3.00	3.45	SPT			CWR	30	65	5																		
4.00	5.00	Core	Completely Weathered Rock Recovered in Granular Pieces		CWR								1.75		2.67							4.10	0.34			
5.00	6.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR									1.81		2.68						4.20	0.32		5	
6.00	7.00	Core			HWR										1.85		2.66						3.45	0.30		7
7.00	8.00	Core			HWR										2.04		2.68						3.40	0.24		11
8.00	9.00	Core			HWR										2.11		2.70						3.60	0.22		10
9.00	10.00	Core		HWR									2.15		2.69						3.47	0.20		9		








Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.864209 Long: 72.7562650		TABLE - 2 Borehole - P72								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
10.00	11.00	Core	Highly Weathered Rock of Weak in Strength		HWR								2.20		2.70							3.30	0.19		25		
11.00	12.00	Core			HWR										2.12		2.71						4.10	0.22		17	
12.00	13.00	Core			HWR										2.25		2.72						3.25	0.17		20	
13.00	14.00	Core			HWR										2.27		2.72						3.10	0.17		35	
14.00	15.00	Core			HWR										2.30		2.71						2.88	0.15		47	
15.00	16.00	Core	Moderately Weathered Rock of Moderately Weak in Strength		MWR									2.52		2.71							1.94	0.07		55	
16.00	17.00	Core	Highly Weathered Rock of Weak in Strength		HWR									2.32		2.69							2.00	0.14		43	
17.00	17.45	SPT			HWR																						
18.00	19.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR									2.40		2.70							1.74	0.11		50	
19.00	20.00	Core			HWR									2.38		2.72							1.60	0.13		52	








Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.864358 Long: 72.7561300	TABLE - 2 Borehole - P83									
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
0.00	0.50	DS	Clay of High Plasticity		CH	2	7	32	59	65	30	35															
1.50	1.95	SPT	Clay of Medium Plasticity		CI	4	15	35	46	44	25	19															
3.00	3.45	SPT	Completely Weathered Rock Recovered in Residual Form		CWR	25	65	10																			
4.00	5.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR									1.81		2.67						4.15	0.32		7		
5.00	6.00	Core			HWR										1.86		2.69						3.89	0.31		10	
6.00	7.00	Core			HWR										1.90		2.68						4.59	0.29		5	
7.00	8.00	Core			HWR										2.04		2.70						3.75	0.24		10	
8.00	9.00	Core	Highly Weathered Rock of Weak in Strength		HWR									2.11		2.71						3.66	0.22		13		
9.00	10.00	Core		HWR										2.15		2.71						3.44	0.21		20		








Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.864358 Long: 72.7561300		TABLE - 2 Borehole - P83								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
10.00	11.00	Core	Highly Weathered Rock of Weak in Strength		HWR								2.17		2.72							3.20	0.20		25		
11.00	12.00	Core			HWR										2.20		2.71						2.80	0.19		30	
12.00	13.00	Core			HWR										2.25		2.69						2.55	0.16		22	
13.00	14.00	Core			HWR										2.30		2.68						2.40	0.14		42	
14.00	15.00	Core	Moderately Weathered Rock of Moderately Weak in Strength		MWR								2.35		2.72							2.21	0.14		51		
15.00	16.00	Core			MWR										2.40		2.72						1.87	0.12		54	
16.00	16.45	SPT	Highly Weathered Rock of Moderately Weak in Strength		HWR																						
17.00	18.00	Core			HWR										2.38		2.71						2.05	0.12		51	
18.00	19.00	Core			HWR										2.42		2.71						1.88	0.11		57	
19.00	20.00	Core			HWR										2.55		2.70						1.70	0.06		60	






Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat: 19.864655 Long: 72.7558600		TABLE - 2 Borehole - P84								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock				
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
0.00	0.50	DS	Clay of High Plasticity		CH	2	7	29	62	65	31	34														
1.50	1.95	SPT			CH	1	10	30	59	58	29	29														
3.00	3.45	SPT	Completely Weathered Rock Recovered in Residual Form		CWR	10	80	10																		
4.00	5.00	Core			CWR	25	70	5																		
5.00	6.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR								1.82		2.66							4.12	0.32		5	
6.00	7.00	Core			HWR									1.87		2.67							3.94	0.30		8
7.00	8.00	Core			HWR									2.04		2.69							4.10	0.24		12
8.00	9.00	Core			HWR									2.15		2.68							3.60	0.20		11
9.00	10.00	Core			HWR									2.09		2.70							3.55	0.23		9














Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.864655 Long: 72.7558600		TABLE - 2 Borehole - P84								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
10.00	11.00	Core	Highly Weathered Rock of Weak in Strength		HWR								2.15		2.69							3.45	0.20		13		
11.00	12.00	Core			HWR										2.20		2.70						2.84	0.19		15	
12.00	13.00	Core			HWR										2.18		2.71						3.33	0.20		22	
13.00	14.00	Core			HWR										2.22		2.69						2.90	0.17		37	
14.00	15.00	Core			HWR										2.34		2.71						3.15	0.14		40	
15.00	16.00	Core	Moderately Weathered Rock of Moderately Weak in Strength		MWR									2.42		2.73							2.66	0.11		52	
16.00	17.00	Core	Highly Weathered Rock of Weak in Strength		HWR									2.37		2.70							3.22	0.12		47	
17.00	18.00	Core			HWR										2.35		2.71						2.40	0.13		44	
18.00	19.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR																						
19.00	20.00	Core			HWR										2.36		2.71						2.27	0.13		54	







Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat: 19.864879 Long: 72.7556570		TABLE - 2 Borehole - P85								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock				
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs		Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
0.00	0.50	DS	Clay of High Plasticity		CH	1	7	30	62	65	32	33														
1.50	1.95	SPT	Completely Weathered Rock Recovered in Residual Form		CWR	15	77	8																		
3.00	3.45	SPT			CWR	22	72	6																		
4.00	5.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR								1.82		2.67							4.23	0.32		4	
5.00	6.00	Core			HWR									1.84		2.66							3.42	0.31		5
6.00	7.00	Core			HWR									1.88		2.67							3.37	0.30		8
7.00	8.00	Core			HWR									1.90		2.69							4.05	0.29		10
8.00	9.00	Core			HWR									2.06		2.68							4.02	0.23		8
9.00	10.00	Core			HWR								2.10		2.69							3.45	0.22		11	










Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.864879 Long: 72.7556570		TABLE - 2 Borehole - P85								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
10.00	11.00	Core	Highly Weathered Rock of Weak in Strength		HWR								2.12		2.70							3.30	0.21		17		
11.00	12.00	Core			HWR										2.11		2.70						3.25	0.22		18	
12.00	13.00	Core			HWR										2.15		2.71						3.20	0.21		29	
13.00	14.00	Core			HWR										2.20		2.69						2.97	0.18		42	
14.00	15.00	Core			HWR										2.25		2.68						2.80	0.16		38	
15.00	16.00	Core			HWR										2.30		2.71						2.49	0.15		45	
16.00	17.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR								2.35		2.72							2.35	0.14		50		
17.00	18.00	Core			HWR										2.42		2.72						1.92	0.11		52	
18.00	19.00	Core			HWR																						
19.00	20.00	Core			HWR										2.43		2.74						1.75	0.11		55	





Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat: 19.865098 Long: 72.7554490		TABLE - 2 Borehole - P86									
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock					
1	2	3	4	5	6	Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index	Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
0.00	0.50	DS	Clay of High Plasticity		CH	0	7	35	58	65	31	34															
1.50	1.95	SPT	Clay of Medium Plasticity		CI	2	20	32	46	47	26	21															
2.00	3.00	Core	Completely Weathered Rock Recovered in Residual Form		CWR	15	77	8																			
3.00	4.00	Core			CWR	20	74	6																			
4.00	5.00	Core	Completely Weathered Rock Recovered in Granular Pieces		CWR								1.76		2.67							4.10	0.34				
5.00	6.00	Core			CWR										1.79		2.66						3.80	0.33			
6.00	7.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR								1.84		2.67							3.73	0.31		5		
7.00	8.00	Core			HWR										1.92		2.66						3.55	0.28		7	
8.00	9.00	Core			HWR										2.10		2.69						3.60	0.22		10	
9.00	9.00	Core			HWR										2.12		2.70						3.44	0.21		12	







Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.865098 Long: 72.7554490		TABLE - 2 Borehole - P86							
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock				
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
10.00	11.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR								2.14		2.70							3.45	0.21		7	
11.00	12.00	Core			HWR									2.15		2.69						3.35	0.20		10	
12.00	13.00	Core			HWR									2.25		2.70						3.22	0.17		17	
13.00	14.00	Core			HWR									2.20		2.71						3.05	0.19		25	
14.00	15.00	Core			HWR									2.27		2.72						2.88	0.17		28	
15.00	16.00	Core	Highly Weathered Rock of Weak in Strength		HWR									2.29		2.69						2.75	0.15		35	
16.00	17.00	Core			HWR									2.30		2.71						2.50	0.15		40	
17.00	17.45	SPT			HWR																					
18.00	19.00	Core	Moderately Weathered Rock of Moderately Weak in Strength		MWR								2.45		2.71							1.80	0.10		51	
19.00	20.00	Core			MWR									2.51		2.72						1.70	0.08		57	







Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat: 19.865219 Long: 72.755335		TABLE - 2 Borehole - P87								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock				
1	2	3	4	5	6	Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index	Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm²)	Modulus of Elasticity
0.00	0.50	DS	Clay of High Plasticity		CH	0	10	32	58	62	29	33														
1.50	1.95	SPT		CH	4	5	42	49	68	31	37															
3.00	3.45	SPT	Completely Weathered Rock Recovered in Residual Form		CWR	15	50	35		22	NP	NP														
4.00	5.00	Core	Completely Weathered Rock Recovered in Granular Pieces		CWR								1.89		2.68							3.95	0.29			
5.00	6.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR								2.00		2.68							3.88	0.25		5	
6.00	7.00	Core			HWR									2.03		2.68						3.75	0.24		7	
7.00	8.00	Core			HWR									2.05		2.69						3.69	0.24		9	
8.00	9.00	Core			HWR									2.06		2.69						3.61	0.23		10	
9.00	10.00	Core			HWR									2.08		2.69						3.55	0.23		12	











Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.865219 Long: 72.755335		TABLE - 2 Borehole - P87									
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit					Specific Gravity G <sub>s</sub>	Shear Parameters				Consolidation Test		For Rock						
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture W <sub>n</sub> %	Cohesion kg/sq.cm.		Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27		
10.00	11.00	Core	Highly Weathered Rock of Weak in Strength		HWR								2.10		2.70							3.50	0.22		45			
11.00	12.00	Core			HWR										2.13		2.70						3.42	0.21		47		
12.00	13.00	Core			HWR										2.17		2.70						3.25	0.20		38		
13.00	14.00	Core			HWR										2.20		2.70						3.10	0.19		25		
14.00	15.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR								2.21		2.71							2.98	0.18		51			
15.00	16.00	Core			HWR										2.23		2.71						2.75	0.18		63		
16.00	16.45	SPT			HWR																							
17.00	18.00	Core			HWR										2.27		2.72							2.60	0.17		85	
18.00					HWR										2.30		2.72							2.45	0.15		92	
19.00	20.00	Core		HWR									2.33		2.72							2.30	0.14		104			






Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.865437 Long: 72.7551000		TABLE - 2 Borehole - P88							
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock				
1	2	3	4	5	6	Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index	Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity
0.00	0.50	DS	Clay of High Plasticity		CH	1	7	26	66	64	31	33														
1.50	1.95	SPT	Clay of Medium Plasticity		CI	2	20	30	48	45	25	20														
3.00	3.45	SPT	Completely Weathered Rock Recovered in Residual Form		CWR	10	78	12																		
4.00	5.00	Core			CWR	12	80	8																		
5.00	6.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR								1.85		2.66							4.08	0.30		4	
6.00	7.00	Core			HWR										1.89		2.67						3.80	0.29		7
7.00	8.00	Core			HWR										1.97		2.68						3.65	0.26		6
8.00	9.00	Core			HWR										2.10		2.70						3.58	0.22		10
9.00	10.00	Core			HWR										2.15		2.68						3.47	0.20		8









Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.865437 Long: 72.7551000		TABLE - 2 Borehole - P88								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
10.00	11.00	Core	Highly Weathered Rock of Weak in Strength		HWR								2.23		2.69							3.32	0.17		17		
11.00	12.00	Core			HWR										2.27		2.69						4.15	0.16		25	
12.00	13.00	Core			HWR										2.30		2.70						4.10	0.15		30	
13.00	14.00	Core			HWR										2.33		2.71						3.25	0.14		20	
14.00	15.00	Core			HWR										2.37		2.70						3.50	0.12		40	
15.00	16.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR									2.40		2.69							2.84	0.11		50	
16.00	16.45	SPT			HWR																						
17.00	18.00	Core			HWR										2.38		2.71						2.40	0.12		60	
18.00	19.00	Core			HWR										2.27		2.70						1.80	0.16		67	
19.00	20.00	Core			HWR										2.45		2.71						1.92	0.10		89	





Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.865639 Long: 72.7548740	TABLE - 2 Borehole - P89								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock				
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
0.00	0.50	DS	Clay of Medium Plasticity		CI	7	18	27	48	44	24	20														
1.50	1.95	SPT	Completely Weathered Rock Recovered in Granular Pieces		CWR																					
3.00	4.00	Core			CWR									1.78		2.68							4.10	0.34		
4.00	5.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR								1.82		2.67							2.94	0.32		4	
5.00	6.00	Core			HWR									1.84		2.69						3.80	0.32		7	
6.00	7.00	Core			HWR									1.91		2.69						3.40	0.29		10	
7.00	8.00	Core			HWR									2.04		2.70						3.32	0.24		11	
8.00	9.00	Core	Highly Weathered Rock of Weak in Strength		HWR								2.07		2.70							3.21	0.23		14	
9.00	10.00	Core			HWR									2.12		2.70						2.90	0.21		22	








Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.865639 Long: 72.7548740		TABLE - 2 Borehole - P89								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
10.00	11.00	Core	Highly Weathered Rock of Weak in Strength		HWR								2.15		2.69							2.75	0.20		28		
11.00	12.00	Core			HWR									2.20		2.71						2.60	0.19		38		
12.00	13.00	Core	Moderately Weathered Rock of Moderately Weak in Strength		MWR									2.34		2.72						1.90	0.14		51		
13.00	14.00	Core			MWR										2.36		2.72						1.88	0.13		55	
14.00	15.00	Core			MWR										2.30		2.71						2.01	0.15		62	
15.00	16.00	Core			MWR										2.38		2.73						2.40	0.13		48	
16.00	17.00	Core	Highly Weathered Rock of Weak in Strength		HWR									2.25		2.71							2.38	0.17		43	
17.00	18.00	Core			HWR										2.30		2.72						2.35	0.15		35	
18.00	19.00	Core			HWR																						
19.00	20.00	Core				HWR									2.40		2.70						2.18	0.11		13	





Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates	Lat: 19.865836 Long: 72.7546430		TABLE - 2 Borehole - P90									
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock				
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs		Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
0.00	0.50	DS	Clay of High Plasticity		CH	0	7	35	58	67	32	35														
1.50	1.95	SPT			CH	0	6	40	54	59	28	31														
3.00	3.45	SPT	Completely Weathered Rock Recovered in Granular Pieces		CWR								1.77	2.66								4.11	0.33			
4.00	5.00	Core			CWR									1.80	2.67								3.89	0.33		
5.00	6.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR								1.84	2.68								4.05	0.31		5	
6.00	7.00	Core			HWR									1.87	2.69								3.88	0.30		7
7.00	8.00	Core			HWR									2.01	2.70								3.60	0.26		10
8.00	9.00	Core			HWR									2.15	2.70								3.55	0.20		5
9.00	10.00	Core			HWR									2.18	2.71								3.42	0.20		6







Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.865836 Long: 72.7546430		TABLE - 2 Borehole - P90								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
10.00	11.00	Core	Highly Weathered Rock of Weak in Strength		HWR								2.22		2.71							3.30	0.18		13		
11.00	12.00	Core			HWR										2.25		2.70						3.28	0.17		17	
12.00	13.00	Core			HWR										2.27		2.71						3.25	0.16		25	
13.00	14.00	Core			HWR										2.30		2.72						3.20	0.15		40	
14.00	15.00	Core			HWR										2.35		2.72						2.84	0.14		49	
15.00	16.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR									2.42		2.73							2.40	0.11		60	
16.00	17.00	Core	Highly Weathered Rock of Weak in Strength		HWR									2.37		2.71							2.25	0.13		44	
17.00	18.00	Core			HWR										2.38		2.72						1.90	0.13		42	
18.00	19.00	Core			HWR																						
19.00	20.00	Core			HWR										2.45		2.70							1.55	0.09		37






Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat: 19.866033 Long: 72.7544120		TABLE - 2 Borehole - P91								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock				
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs		Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
0.00	0.50	DS	Clay of High Plasticity		CH	0	8	35	57	62	31	31														
1.50	1.95	SPT			CH	0	5	30	65	70	33	37														
3.00	3.45	SPT	Completely Weathered Rock Recovered in Residual Form		CWR	30	65	5																		
4.00	5.00	Core	Completely Weathered Rock Recovered in Granular Pieces		CWR								1.75		2.67							4.01	0.34			
5.00	6.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR								1.81		2.67							3.98	0.32		4	
6.00	7.00	Core			HWR								1.82		2.68							3.80	0.32		5	
7.00	8.00	Core			HWR								1.85		2.68							3.67	0.31		10	
8.00	9.00	Core			HWR								1.90		2.69							3.40	0.29		8	
9.00	10.00	Core			HWR								2.11		2.71							3.38	0.22		12	









Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.866033 Long: 72.7544120		TABLE - 2 Borehole - P91								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
10.00	11.00	Core	Highly Weathered Rock of Weak in Strength		HWR								2.15		2.70							3.20	0.20		17		
11.00	12.00	Core			HWR										2.24		2.70						2.90	0.17		20	
12.00	13.00	Core			HWR										2.25		2.71						2.81	0.17		25	
13.00	14.00	Core			HWR										2.30		2.71						2.66	0.15		34	
14.00	15.00	Core			HWR										2.35		2.71						2.54	0.13		47	
15.00	16.00	Core	Moderately Weathered Rock of Moderately Weak in Strength		MWR									2.42		2.72						1.94	0.11		52		
16.00	17.00	Core	Highly Weathered Rock of Weak in Strength		HWR									2.30		2.71						2.33	0.15		42		
17.00	17.45	SPT			HWR																						
18.00	19.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR									2.40		2.72						1.80	0.12		62		
19.00	20.00	Core			HWR										2.43		2.73						1.78	0.11		98	







Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat: 19.866231 Long: 72.7541810		TABLE - 2 Borehole - P92								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock				
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs		Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
0.00	0.50	DS	Clay of High Plasticity		CH	0	10	38	52	57	28	29														
1.50	1.95	SPT			CH	0	7	30	63	61	30	31														
3.00	3.45	SPT	Completely Weathered Rock Recovered in Granular Pieces		CWR																					
4.00	5.00	Core			CWR									1.77		2.67							3.91	0.34		
5.00	6.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR								1.80		2.66							3.80	0.32		5	
6.00	7.00	Core			HWR									1.85		2.68							3.75	0.31		10
7.00	8.00	Core			HWR									1.90		2.67							3.60	0.29		7
8.00	9.00	Core			HWR									2.05		2.70							3.55	0.24		5
9.00	10.00	Core			HWR									2.20		2.71							3.35	0.19		10








Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.866231 Long: 72.7541810		TABLE - 2 Borehole - P92								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
10.00	11.00	Core	Highly Weathered Rock of Weak in Strength		HWR								2.23		2.70							3.20	0.17		15		
11.00	12.00	Core			HWR										2.28		2.71						3.15	0.16		22	
12.00	13.00	Core			HWR										2.30		2.72						3.10	0.15		30	
13.00	14.00	Core			HWR										2.35		2.71						2.89	0.13		41	
14.00	15.00	Core			HWR										2.32		2.71						2.70	0.14		30	
15.00	16.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR								2.38		2.73							2.20	0.13		64		
16.00	17.00	Core	Highly Weathered Rock of Weak in Strength		HWR									2.34		2.71						2.15	0.14		43		
17.00	17.45	SPT			HWR																						
18.00	19.00	Core			HWR										2.42		2.70						1.70	0.10		25	
19.00	20.00	Core			HWR								2.46		2.71						1.64	0.09		38			





Vishvas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat: 19.866428 Long: 72.7539500		TABLE - 2 Borehole - P93								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock				
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
0.00	0.50	DS	Clay of High Plasticity		CH	0	11	30	59	57	28	29														
1.50	1.95	SPT	Completely Weathered Rock Recovered in Residual Form		CWR	17	75	8																		
3.00	3.45	SPT			CWR	20	78	2																		
4.00	5.00	Core	Completely Weathered Rock Recovered in Granular Pieces		CWR								1.77		2.66							4.12	0.33			
5.00	6.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR									1.82		2.67						4.08	0.32		10	
6.00	7.00	Core			HWR										1.89		2.69					3.91	0.30		8	
7.00	8.00	Core			HWR										1.97		2.67					3.71	0.26		9	
8.00	9.00	Core			HWR										2.12		2.69					3.62	0.21		10	
9.00	10.00	Core		HWR									2.20		2.70						3.45	0.19		11		








Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.866428 Long: 72.7539500		TABLE - 2 Borehole - P93								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
10.00	11.00	Core	Highly Weathered Rock of Weak in Strength		HWR								2.22		2.70							3.42	0.18		20		
11.00	12.00	Core			HWR									2.24		2.71							3.32	0.17			25
12.00	13.00	Core			HWR									2.26		2.70							3.20	0.16			34
13.00	14.00	Core			HWR									2.30		2.71							3.15	0.15			37
14.00	15.00	Core			HWR									2.34		2.72							3.04	0.14			46
15.00	16.00	Core	Moderately Weathered Rock of Moderately Weak in Strength		MWR									2.45		2.71							2.44	0.10			53
16.00	16.45	SPT	Highly Weathered Rock of Weak in Strength		HWR																						
17.00	18.00	Core			HWR										2.42		2.72						1.90	0.11			45
18.00	19.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR										2.41		2.72						1.75	0.11			64
19.00	20.00	Core			HWR										2.44		2.71						1.62	0.10			83








Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates	Lat: 19.866625 Long: 72.7537190		TABLE - 2 Borehole - P94									
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock				
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs		Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
0.00	0.50	DS	Clay of High Plasticity		CH	0	7	32	61	63	31	32														
1.50	1.95	SPT	Clay of Medium Plasticity		CI	2	10	35	53	43	25	18														
3.00	3.45	SPT	Completely Weathered Rock Recovered in Residual Form		CWR	25	70	5																		
4.00	5.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR									1.80		2.67						4.15	0.33		8	
5.00	6.00	Core			HWR										1.86		2.69						3.89	0.31		11
6.00	7.00	Core			HWR										1.90		2.68						4.59	0.29		7
7.00	8.00	Core			HWR										2.05		2.70						3.75	0.24		11
8.00	9.00	Core	Highly Weathered Rock of Weak in Strength	HWR									2.10		2.70						3.66	0.22		12		
9.00	10.00	Core		HWR										2.15		2.69						3.44	0.20		24	








Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.866625 Long: 72.7537190		TABLE - 2 Borehole - P94								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
10.00	11.00	Core	Highly Weathered Rock of Weak in Strength		HWR								2.17		2.70							3.20	0.20		27		
11.00	12.00	Core			HWR										2.22		2.71						2.80	0.18		32	
12.00	13.00	Core			HWR										2.30		2.72						2.55	0.15		25	
13.00	14.00	Core			HWR										2.35		2.71						2.40	0.13		47	
14.00	15.00	Core	Moderately Weathered Rock of Moderately Weak in Strength		MWR								2.38		2.70							2.21	0.12		52		
15.00	16.00	Core			MWR										2.42		2.72						1.87	0.11		55	
16.00	16.45	SPT	Highly Weathered Rock of Moderately Weak in Strength		HWR								2.37		2.70							2.11	0.12		48		
17.00	18.00	Core			HWR										2.40		2.69						2.05	0.11		50	
18.00	19.00	Core			HWR										2.42		2.72						1.88	0.11		62	
19.00	20.00	Core			HWR										2.44		2.73						1.70	0.11		86	






Vishvas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat: 19.866823 Long: 72.7534880		TABLE - 2 Borehole - P95								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock				
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
0.00	0.50	DS	Clay of High Plasticity		CH	0	7	29	64	64	31	33														
1.50	1.95	SPT			CH	2	8	30	60	58	29	29														
3.00	3.45	SPT	Completely Weathered Rock Recovered in Residual Form		CWR	15	80	5																		
4.00	5.00	Core			CWR	22	72	6																		
5.00	6.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR								1.85		2.66							5.01	0.30		5	
6.00	7.00	Core			HWR									1.88		2.67							4.52	0.30		10
7.00	8.00	Core			HWR									1.94		2.67							3.78	0.27		7
8.00	9.00	Core			HWR									2.11		2.68							3.55	0.21		8
9.00	10.00	Core			HWR									2.05		2.69							3.40	0.24		11








Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.866823 Long: 72.7534880		TABLE - 2 Borehole - P95								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
10.00	11.00	Core	Highly Weathered Rock of Weak in Strength		HWR								2.22		2.70							3.33	0.18		12		
11.00	12.00	Core			HWR										2.19		2.70						2.80	0.19		15	
12.00	13.00	Core			HWR										2.25		2.69						2.77	0.16		24	
13.00	14.00	Core			HWR										2.32		2.70						2.50	0.14		38	
14.00	15.00	Core			HWR										2.37		2.70						2.42	0.12		44	
15.00	16.00	Core	Moderately Weathered Rock of Moderately Weak in Strength		MWR									2.44		2.72							2.38	0.10		51	
16.00	17.00	Core	Highly Weathered Rock of Weak in Strength		HWR									2.40		2.71							2.30	0.11		45	
17.00	17.45	SPT			HWR																						
18.00	19.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR									2.42		2.72							1.90	0.11		49	
19.00	20.00	Core			HWR										2.36		2.72						1.50	0.13		74	







Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates	Lat: 19.86702 Long: 72.7532570		TABLE - 2 Borehole - P96								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock				
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs		Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
0.00	0.50	DS	Clay of High Plasticity		CH	2	6	30	62	62	31	31														
1.50	1.95	SPT	Completely Weathered Rock Recovered in Residual Form		CWR	10	80	10																		
3.00	3.45	SPT			CWR	15	78	7																		
4.00	5.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR								1.80		2.66							4.20	0.32		5	
5.00	6.00	Core			HWR									1.83		2.66							3.70	0.31		7
6.00	7.00	Core			HWR									1.87		2.67							3.65	0.30		10
7.00	8.00	Core			HWR									1.90		2.69							4.05	0.29		8
8.00	9.00	Core			HWR									2.04		2.70							3.90	0.24		9
9.00	10.00	Core			HWR								2.15		2.69							3.40	0.20		10	







Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.86702 Long: 72.7532570		TABLE - 2 Borehole - P96								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
10.00	11.00	Core	Highly Weathered Rock of Weak in Strength		HWR								2.23		2.70							3.40	0.17		20		
11.00	12.00	Core			HWR									2.25		2.70							3.30	0.17			33
12.00	13.00	Core			HWR									2.30		2.71							3.25	0.15			35
13.00	14.00	Core			HWR									2.32		2.71							2.80	0.14			42
14.00	15.00	Core			HWR									2.37		2.69							2.75	0.12			38
15.00	16.00	Core			HWR									2.40		2.70							2.30	0.11			40
16.00	17.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR								2.37		2.70							2.25	0.12		51		
17.00	17.45	SPT			HWR																						
18.00	19.00	Core			HWR									2.40		2.73							1.75	0.12		62	
19.00	20.00	Core			HWR									2.42		2.74							1.45	0.12		75	





Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat: 19.867136 Long: 72.7531240		TABLE - 2 Borehole - P97								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock				
1	2	3	4	5	6	Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index	Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm²)	Modulus of Elasticity
0.00	0.50	DS	Clay of High Plasticity		CH	0	19	37	44	58	28	30														
1.50	1.95	SPT			CH	0	17	35	48	57	27	30														
3.00	3.45	SPT			CH	0	20	33	47	53	27	26														
4.50	4.95	SPT	Completely Weathered Rock Recovered in Residual Form		CWR								1.87		2.68							4.08	0.30			
6.00	6.45	SPT			CWR									1.91		2.68							4.00	0.29		
7.00	8.00	Core	Completely Weathered Rock Recovered in Granular Pieces		CWR									2.05		2.69						3.95	0.24			
8.00	9.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR									2.07		2.69						3.80	0.23		11	
9.00	10.00	Core			HWR										2.10		2.70						3.77	0.22		12
####	11.00	Core	Moderately Weathered Rock of Weak in Strength		MWR									2.12		2.70						3.65	0.21		18	









Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.867136 Long: 72.7531240		TABLE - 2 Borehole - P97								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit					Specific Gravity Gs	Shear Parameters				Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture W n %	Cohesion kg/sq.cm.		Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
11.00	12.00	Core	Highly Weathered Rock of Weak in Strength		HWR								2.16		2.70							3.60	0.20		21		
12.00	13.00	Core			HWR									2.18		2.70						3.52	0.19		25		
13.00	14.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR									2.21		2.71						3.48	0.18		51		
14.00	15.00	Core			HWR										2.26		2.71						3.21	0.17		55	
15.00	16.00	Core			HWR										2.29		2.71						3.00	0.15		60	
16.00	16.45	SPT	Moderately Weathered Rock of Moderately Weak in Strength		MWR																						
17.00	18.00	Core			MWR										2.32		2.72						2.48	0.15		69	
18.00	19.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR									2.35		2.73							2.21	0.14		74	
19.00	20.00	Core			HWR										2.37		2.73						2.00	0.13		85	






Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates	Lat: 19.867415 Long: 72.7527950		TABLE - 2 Borehole - P98									
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock				
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs		Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
0.00	0.50	DS	Clay of High Plasticity		CH	0	12	27	61	58	30	28														
1.50	1.95	SPT	Clay of Medium Plasticity		CI	1	20	33	46	44	25	19														
3.00	3.45	SPT		CI	3	17	35	45	42	24	18															
4.50	4.95	SPT	Completely Weathered Rock Recovered in Residual Form		CWR	20	73	7																		
5.00	6.00	Core			CWR	23	75	2																		
6.00	7.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR								1.82		2.66							3.97	0.32		5	
7.00	8.00	Core			HWR									1.95		2.66							3.85	0.27		7
8.00	9.00	Core			HWR									2.12		2.67							3.77	0.21		8
9.00	10.00	Core			HWR									2.17		2.67							3.40	0.19		10










Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.867415 Long: 72.7527950		TABLE - 2 Borehole - P98								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
10.00	11.00	Core	Highly Weathered Rock of Weak in Strength		HWR								2.20		2.68							3.37	0.18		12		
11.00	12.00	Core			HWR										2.15		2.68						3.29	0.20		15	
12.00	13.00	Core			HWR										2.22		2.69						3.20	0.17		17	
13.00	14.00	Core			HWR										2.27		2.70						3.25	0.16		27	
14.00	15.00	Core			HWR										2.32		2.69						3.12	0.14		39	
15.00	16.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR									2.37		2.70							3.09	0.12		48	
16.00	17.00	Core			HWR										2.38		2.71						2.80	0.12		53	
17.00	18.00	Core			HWR										2.40		2.71						1.70	0.11		57	
18.00	19.00	Core			HWR																						
19.00	20.00	Core			HWR										2.42		2.71							1.65	0.11		85





Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat: 19.867616 Long: 72.7525680		TABLE - 2 Borehole - P99										
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock						
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs		Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27		
0.00	0.50	DS	Clay of High Plasticity		CH	0	7	34	59	65	31	34																
1.50	1.95	SPT	Clay of Medium Plasticity		CI	2	20	34	44	46	25	21																
2.00	3.00	Core	Completely Weathered Rock Recovered in Residual Form		CWR	10	80	10																				
3.00	4.00	Core			CWR	17	74	9																				
4.00	5.00	Core	Completely Weathered Rock Recovered in Granular Pieces		CWR								1.75		2.66							4.08	0.34					
5.00	6.00	Core			CWR										1.77		2.66							3.90	0.33			
6.00	7.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR								1.85		2.67								3.75	0.31		7		
7.00	8.00	Core			HWR										1.97		2.67							3.70	0.26		10	
8.00	9.00	Core			HWR										2.05		2.68								3.65	0.24		8
9.00	9.00	Core			HWR										2.11		2.68									3.40	0.21	







Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.867616 Long: 72.7525680		TABLE - 2 Borehole - P99								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
10.00	11.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR								2.15		2.69							3.37	0.20		10		
11.00	12.00	Core			HWR									2.17		2.70						3.25	0.20		12		
12.00	13.00	Core	Highly Weathered Rock of Weak in Strength		HWR									2.22		2.70						3.20	0.18		15		
13.00	14.00	Core			HWR										2.25		2.71						2.80	0.17		20	
14.00	15.00	Core			HWR										2.27		2.71						2.50	0.16		27	
15.00	16.00	Core			HWR										2.32		2.72						2.40	0.15		35	
16.00	17.00	Core			HWR										2.35		2.70						2.35	0.13		40	
17.00	18.00	Core			HWR										2.40		2.69						2.11	0.11		48	
18.00	19.00	Core	Moderately Weathered Rock of Moderately Weak in Strength	MWR																							
19.00	20.00	Core		MWR										2.44		2.72						1.77	0.10		102		







Vishvas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates	Lat: 19.867824 Long: 72.752348		TABLE - 2 Borehole - P100									
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit					Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock				
1	2	3	4	5	6	Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index	Dry Density gm/cc	Natural Moisture Wn %		Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm²)	Modulus of Elasticity
0.00	0.50	DS	Clay of High Plasticity		CH	0	7	30	63	65	32	33														
1.50	1.95	SPT			CH	2	5	32	61	60	31	29														
3.00	3.45	SPT	Completely Weathered Rock Recovered in Residual Form		CWR	25	67	8																		
4.00	5.00	Core	Completely Weathered Rock Recovered in Granular Pieces		CWR									1.82	2.67						3.95	0.32				
5.00	6.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR									1.90	2.66						3.88	0.29		4		
6.00	7.00	Core			HWR										2.02	2.67					3.75	0.24		8		
7.00	8.00	Core			HWR										2.10	2.68					3.69	0.22		10		
8.00	9.00	Core			HWR										2.12	2.68					3.61	0.21		9		
9.00	10.00	Core			HWR										2.17	2.69					3.55	0.19		11		











Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.867824 Long: 72.752348		TABLE - 2 Borehole - P100								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit					Specific Gravity Gs	Shear Parameters				Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture W n %	Cohesion kg/sq.cm.		Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
10.00	11.00	Core	Highly Weathered Rock of Weak in Strength		HWR								2.15		2.70							3.50	0.20		38		
11.00	12.00	Core			HWR										2.20		2.69						3.42	0.18		30	
12.00	13.00	Core			HWR										2.26		2.68						3.25	0.16		42	
13.00	14.00	Core			HWR										2.27		2.71						3.10	0.16		45	
14.00	15.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR								2.25		2.70							2.98	0.17		49		
15.00	16.00	Core			HWR										2.34		2.71						2.75	0.14		53	
16.00	17.00	Core			HWR										2.38		2.72						2.68	0.13		57	
17.00	17.45	SPT			HWR																						
18.00					HWR										2.35		2.71						2.45	0.13		75	
19.00	20.00	Core			HWR								2.43		2.69						2.30	0.10		97			





Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat: 19.86796 Long: 72.7522170		TABLE - 2 Borehole - P101								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock				
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
0.00	0.50	DS	Clay of Medium Plasticity		CI	1	20	30	49	45	25	20														
1.50	1.95	SPT	Completely Weathered Rock Recovered in Granular Pieces		CWR																					
3.00	4.00	Core			CWR									1.77		2.66							4.10	0.33		
4.00	5.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR																					
5.00	6.00	Core			HWR																					
6.00	7.00	Core			HWR																					
7.00	8.00	Core			HWR																					
8.00	9.00	Core	Highly Weathered Rock of Weak in Strength		HWR																					
9.00	10.00	Core			HWR																					









Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.86796 Long: 72.7522170		TABLE - 2 Borehole - P101								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
10.00	11.00	Core	Highly Weathered Rock of Weak in Strength		HWR								2.18		2.70							3.20	0.19		25		
11.00	12.00	Core			HWR									2.20		2.71						3.15	0.19		50		
12.00	13.00	Core	Moderately Weathered Rock of Moderately Weak in Strength		MWR									2.30		2.71						1.90	0.15		55		
13.00	14.00	Core			MWR										2.35		2.71						1.70	0.13		53	
14.00	15.00	Core			MWR										2.37		2.69						1.50	0.12		61	
15.00	16.00	Core			MWR										2.40		2.68						1.85	0.10		67	
16.00	17.00	Core	Highly Weathered Rock of Weak in Strength		HWR									2.35		2.69							2.20	0.13		47	
17.00	18.00	Core			HWR										2.38		2.70						2.05	0.12		23	
18.00	19.00	Core			HWR																						
19.00	20.00	Core				HWR									2.46		2.72						1.65	0.10		20	






Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat: 19.868258 Long: 72.7519280		TABLE - 2 Borehole - P102								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock				
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
0.00	0.50	DS	Clay of High Plasticity		CH	1	10	30	59	62	31	31														
1.50	1.95	SPT	Clay of Medium Plasticity		CI	1	25	26	48	45	26	19														
3.00	3.45	SPT		CI	3	30	25	42	43	25	18															
4.50	4.95	SPT	Completely Weathered Rock Recovered in Residual Form		CWR	15	77	8																		
5.00	6.00	Core			CWR	20	75	5																		
6.00	7.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR								1.90		2.66							4.10	0.29		7	
7.00	8.00	Core			HWR									2.05		2.67							3.90	0.23		8
8.00	9.00	Core			HWR									2.10		2.67							3.88	0.21		10
9.00	10.00	Core			HWR									2.15		2.68							3.60	0.20		12







Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.868258 Long: 72.7519280		TABLE - 2 Borehole - P102								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
10.00	11.00	Core	Highly Weathered Rock of Weak in Strength		HWR								2.17		2.68							3.50	0.19		25		
11.00	12.00	Core			HWR										2.20		2.69						3.44	0.18		17	
12.00	13.00	Core			HWR										2.22		2.70						4.01	0.18		20	
13.00	14.00	Core			HWR										2.25		2.70						3.40	0.17		37	
14.00	15.00	Core			HWR										2.30		2.71						3.33	0.15		40	
15.00	16.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR									2.32		2.72							2.60	0.15		49	
16.00	17.00	Core			HWR										2.37		2.72						2.35	0.13		57	
17.00	18.00	Core			HWR										2.40		2.71						1.82	0.11		62	
18.00	19.00	Core			HWR																						
19.00	20.00	Core			HWR										2.41		2.72							1.35	0.11		92






Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates	Lat: 19.868478 Long: 72.7517210		TABLE - 2 Borehole - P103								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock				
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs		Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
0.00	0.50	DS	Clay of High Plasticity		CH	1	7	35	57	58	30	28														
1.50	1.95	SPT			CH	2	10	30	58	56	29	27														
3.00	3.45	SPT	Completely Weathered Rock Recovered in Residual Form		CWR	20	72	8																		
4.00	5.00	Core	Completely Weathered Rock Recovered in Granular Pieces		CWR								1.77		2.66							5.10	0.33			
5.00	6.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR								1.82		2.67							4.49	0.32	-		
6.00	7.00	Core			HWR								1.86		2.67							3.80	0.30	5		
7.00	8.00	Core			HWR								2.04		2.68							2.66	0.24	7		
8.00	9.00	Core			HWR								2.11		2.69							3.40	0.22	10		
9.00	10.00	Core			HWR								2.15		2.71							3.30	0.21	15		









Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.868478 Long: 72.7517210		TABLE - 2 Borehole - P103								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
10.00	11.00	Core	Highly Weathered Rock of Weak in Strength		HWR								2.20		2.71							3.10	0.19		27		
11.00	12.00	Core			HWR										2.22		2.70						3.05	0.18		30	
12.00	13.00	Core			HWR										2.25		2.71						2.89	0.17		34	
13.00	14.00	Core			HWR										2.30		2.72						2.75	0.15		40	
14.00	15.00	Core			HWR										2.35		2.71						2.54	0.13		47	
15.00	16.00	Core	Moderately Weathered Rock of Moderately Weak in Strength		MWR									2.42		2.72							2.32	0.11		55	
16.00	17.00	Core	Highly Weathered Rock of Weak in Strength		HWR									2.35		2.70							2.20	0.13		43	
17.00	18.00	Core			HWR										2.36		2.69						1.98	0.12		45	
18.00	19.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR																						
19.00	20.00	Core			HWR										2.50		2.73						1.42	0.08		78	







Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat: 19.868697 Long: 72.7515130		TABLE - 2 Borehole - P104								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock				
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs		Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
0.00	0.50	DS	Clay of High Plasticity		CH	0	5	37	58	54	29	25														
1.50	1.95	SPT			CH	0	7	32	61	57	30	27														
3.00	3.45	SPT	Completely Weathered Rock Recovered in Granular Pieces		CWR																					
4.00	5.00	Core			CWR									1.78		2.67							4.02	0.33		
5.00	6.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR								1.83		2.68							3.74	0.32		5	
6.00	7.00	Core			HWR									1.85		2.68							3.65	0.31		9
7.00	8.00	Core			HWR									1.87		2.70							3.50	0.31		11
8.00	9.00	Core			HWR									2.11		2.69							3.55	0.22		8
9.00	10.00	Core			HWR									2.15		2.70							3.34	0.20		12









Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.868697 Long: 72.7515130		TABLE - 2 Borehole - P104								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
10.00	11.00	Core	Highly Weathered Rock of Weak in Strength		HWR								2.22		2.71							3.40	0.18		17		
11.00	12.00	Core			HWR										2.15		2.70						3.32	0.20		25	
12.00	13.00	Core			HWR										2.25		2.69						3.24	0.16		30	
13.00	14.00	Core			HWR										2.30		2.70						3.20	0.15		41	
14.00	15.00	Core			HWR										2.34		2.71						2.70	0.14		45	
15.00	16.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR								2.38		2.72							2.15	0.13		60		
16.00	17.00	Core	Highly Weathered Rock of Weak in Strength		HWR									2.39		2.71						2.52	0.12		47		
17.00	17.45	SPT			HWR																						
18.00	19.00	Core			HWR										2.41		2.70						1.75	0.11		42	
19.00	20.00	Core		HWR									2.43		2.72						1.54	0.11		20			






Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat: 19.86884 Long: 72.7513830		TABLE - 2 Borehole - P105								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock				
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs		Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
0.00	0.50	DS	Clay of High Plasticity		CH	2	8	30	60	64	31	33														
1.50	1.95	SPT	Clay of Medium Plasticity		CI	4	15	35	46	44	24	20														
3.00	3.45	SPT	Completely Weathered Rock Recovered in Residual Form		CWR	17	78	5																		
4.00	5.00	Core			CWR	22	74	4																		
5.00	6.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR								1.84		2.66							3.92	0.31		5	
6.00	7.00	Core			HWR										1.90		2.67						3.87	0.29		8
7.00	8.00	Core			HWR										1.95		2.67						3.60	0.27		10
8.00	9.00	Core			HWR										2.12		2.68						3.54	0.21		12
9.00	10.00	Core			HWR										2.15		2.69						3.46	0.20		11









Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.86884 Long: 72.7513830		TABLE - 2 Borehole - P105								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
10.00	11.00	Core	Highly Weathered Rock of Weak in Strength		HWR								2.20		2.70							3.40	0.19		20		
11.00	12.00	Core			HWR										2.27		2.71						3.35	0.16		27	
12.00	13.00	Core			HWR										2.32		2.70						3.30	0.14		30	
13.00	14.00	Core			HWR										2.35		2.71						3.25	0.13		35	
14.00	15.00	Core			HWR										2.37		2.71						2.70	0.13		40	
15.00	16.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR									2.42		2.72							2.55	0.11		55	
16.00	17.00	Core			HWR										2.40		2.72						2.30	0.12		44	
17.00	17.45	SPT			HWR																						
18.00	19.00	Core			HWR										2.40		2.70						1.80	0.11		90	
19.00	20.00	Core			HWR										2.53		2.70						1.74	0.06		102	





Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat: 19.869137 Long: 72.7510990		TABLE - 2 Borehole - P106								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock				
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
0.00	0.50	DS	Clay of Medium Plasticity		CI	3	20	34	43	45	25	20														
1.50	1.95	SPT	Completely Weathered Rock Recovered in Granular Pieces		CWR																					
3.00	4.00	Core			CWR									1.77		2.67							3.98	0.34		
4.00	5.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR																					
5.00	6.00	Core			HWR																					
6.00	7.00	Core			HWR																					
7.00	8.00	Core			HWR																					
8.00	9.00	Core	Highly Weathered Rock of Weak in Strength		HWR																					
9.00	10.00	Core			HWR																					










Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.869137 Long: 72.7510990		TABLE - 2 Borehole - P106								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
10.00	11.00	Core	Highly Weathered Rock of Weak in Strength		HWR								2.15		2.69							2.96	0.20		29		
11.00	12.00	Core			HWR									2.22		2.70						2.70	0.18		44		
12.00	13.00	Core	Moderately Weathered Rock of Moderately Weak in Strength		MWR									2.33		2.71						1.90	0.14		52		
13.00	14.00	Core			MWR										2.35		2.71						1.85	0.13			57
14.00	15.00	Core			MWR										2.30		2.70						2.08	0.15			66
15.00	16.00	Core			MWR										2.37		2.70						2.03	0.12			70
16.00	17.00	Core	Highly Weathered Rock of Weak in Strength		HWR									2.35		2.69							2.40	0.13			42
17.00	18.00	Core			HWR										2.37		2.69						2.22	0.12			39
18.00	19.00	Core			HWR																						
19.00	20.00	Core				HWR									2.44		2.71						1.75	0.10			25






Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates		Lat: 19.869356 Long: 72.7508920		TABLE - 2 Borehole - P107								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock				
1	2	3	4	5	6	Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index	Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity
0.00	0.50	DS	Clay of High Plasticity		CH	0	10	41	49	60	30	30														
1.50	1.95	SPT	Clay of Medium Plasticity		CI	8	22	32	38	45	25	20														
2.00	3.00	Core	Completely Weathered Rock Recovered in Residual Form		CWR								1.77	2.67								4.09	0.34			
3.00	4.00	Core			CWR									1.79	2.67								4.02	0.33		
4.00	5.00	Core	Completely Weathered Rock Recovered in Granular Pieces		CWR								1.82	2.68								3.94	0.32			
5.00	6.00	Core			CWR									1.83	2.68								3.85	0.32		
6.00	7.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR								2.02	2.69								3.71	0.25		6	
7.00	8.00	Core			HWR									2.05	2.69								3.66	0.24		9
8.00	9.00	Core			HWR									2.09	2.70								3.59	0.23		10
9.00	9.00	Core			HWR									2.11	2.70								3.51	0.22		12














Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.869356 Long: 72.7508920		TABLE - 2 Borehole - P107								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
10.00	11.00	Core	Highly Weathered Rock of Weak in Strength		HWR								2.13		2.71							3.48	0.21		14		
11.00	12.00	Core			HWR										2.16		2.71						3.40	0.20		18	
12.00	13.00	Core			HWR										2.19		2.71						3.30	0.19		22	
13.00	14.00	Core			HWR										2.22		2.72						3.12	0.18		26	
14.00	15.00	Core			HWR										2.25		2.72						2.96	0.17		29	
15.00	16.00	Core	Moderately Weathered Rock of Moderately Weak in Strength		MWR									2.29		2.73							2.77	0.16		55	
16.00	17.00	Core	Highly Weathered Rock of Weak in Strength		HWR									2.31		2.73							2.62	0.15		40	
17.00	18.00	Core			HWR										2.33		2.73						2.51	0.15		46	
18.00	19.00	SP	Highly Weathered Rock of Moderately Weak in Strength		HWR																						
19.00	20.00	Core			HWR										2.37		2.74						2.22	0.14		61	






Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates	Lat: 19.869576 Long: 72.7506850		TABLE - 2 Borehole - P108									
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock				
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs		Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
0.00	0.50	DS	Clay of High Plasticity		CH	1	12	38	49	62	32	30														
1.50	1.95	SPT	Completely Weathered Rock Recovered in Residual Form		CWR	20	75	5																		
3.00	3.45	SPT			CWR	24	69	7																		
4.00	5.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR								1.96		2.66							4.10	0.26		5	
5.00	6.00	Core			HWR									2.01		2.66							3.93	0.24		9
6.00	7.00	Core			HWR									2.04		2.67							3.48	0.24		10
7.00	8.00	Core			HWR									2.06		2.68							3.22	0.23		11
8.00	9.00	Core			HWR									2.09		2.68							3.03	0.22		6
9.00	10.00	Core			HWR								2.11		2.68							2.96	0.21		12	









Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.869576 Long: 72.7506850		TABLE - 2 Borehole - P108								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
10.00	11.00	Core	Highly Weathered Rock of Weak in Strength		HWR								2.13		2.70							2.66	0.21		16		
11.00	12.00	Core			HWR										2.16		2.70						2.55	0.20		22	
12.00	13.00	Core			HWR										2.18		2.71						2.32	0.20		32	
13.00	14.00	Core			HWR										2.21		2.71						2.11	0.18		39	
14.00	15.00	Core	Moderately Weathered Rock of Moderately Weak in Strength		MWR									2.23		2.72						1.95	0.18		51		
15.00	16.00	Core			MWR										2.27		2.72						1.74	0.17		56	
16.00	17.00	Core	Highly Weathered Rock of Weak in Strength		HWR									2.33		2.73						1.62	0.15		26		
17.00	18.00	Core			HWR										2.36		2.73						1.36	0.14		29	
18.00	19.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR																						
19.00	20.00	Core			HWR										2.45		2.73						1.15	0.10		68	








Vishvas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates	Lat: 19.869796 Long: 72.7504780		TABLE - 2 Borehole - P109									
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs		Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
0.00	0.50	DS	Clay of High Plasticity		CH	2	8	40	50	62	31	31															
1.50	1.95	SPT			CH	3	11	33	53	65	32	33															
3.00	3.45	SPT	Clay of Medium Plasticity		CI	1	16	39	44	49	26	23															
4.00	5.00	Core	Completely Weathered Rock Recovered in Granular Pieces		CWR								1.83		2.66							3.96	0.31				
5.00	6.00	Core			CWR										1.87		2.67							3.89	0.30		
6.00	7.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR								2.06		2.67								3.71	0.23		5	
7.00	8.00	Core			HWR										2.08		2.67							3.59	0.22		8
8.00	9.00	Core			HWR										2.11		2.68							3.55	0.21		9
9.00	10.00	Core			HWR										2.13		2.68							3.41	0.21		11







Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.869796 Long: 72.7504780		TABLE - 2 Borehole - P109								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
10.00	11.00	Core	Highly Weathered Rock of Weak in Strength		HWR								2.16		2.70							3.32	0.20		16		
11.00	12.00	Core			HWR									2.18		2.70							3.15	0.19			19
12.00	13.00	Core			HWR									2.19		2.71							3.00	0.19			25
13.00	14.00	Core			HWR									2.21		2.71							2.96	0.18			29
14.00	15.00	Core			HWR									2.22		2.71							2.84	0.18			37
15.00	16.00	Core			HWR									2.25		2.72							2.66	0.17			40
16.00	17.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR								2.34		2.72							2.59	0.14		51		
17.00	17.45	SPT			HWR																						
18.00	19.00	Core			HWR									2.46		2.72							2.74	0.10			61
19.00	20.00	Core			HWR									2.50		2.72							2.56	0.08			66







Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA										Borehole Co-ordinates	Lat: 19.870016 Long: 72.7502700		TABLE - 2 Borehole - A2													
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit						Shear Parameters				Consolidation Test		For Rock								
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs		Cohesion kg/sq.cm.	Degree	Type of Test	Silt Factor	c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27				
0.00	0.50	DS	Clay of High Plasticity		CH	0	9	40	51	59	31	28																		
1.50	1.95	SPT			CH	0	8	36	56	62	33	29																		
3.00	3.45	SPT	Completely Weathered Rock Recovered in Residual Form		CWR	26	68	6																						
4.00	5.00	Core	Completely Weathered Rock Recovered in Granular Pieces		CWR								1.84		2.67								4.12	0.31						
5.00	6.00	Core	Highly Weathered Rock of Very Weak in Strength		HWR									2.06		2.68								3.88	0.23		3			
6.00	7.00	Core			HWR										2.10		2.69								3.71	0.22		6		
7.00	8.00	Core			HWR											2.13		2.68								3.64	0.21		8	
8.00	9.00	Core		HWR												2.16		2.68								3.45	0.19		10	
9.00	10.00	Core		HWR												2.18		2.69									3.44	0.19		11





Vishwas Geotech Pvt. Ltd. Ahmedabad				SUMMARY OF EXPLORATION DATA											Borehole Co-ordinates		Lat: 19.870016 Long: 72.7502700		TABLE - 2 Borehole - A2								
Depth in mtr.	To	Sample No. & Type	Visual Description of Soil & Stratum No.	Hatching	IS Classification	Particle Size Analysis				Atterberg's Limit			Dry Density gm/cc	Natural Moisture Wn %	Specific Gravity Gs	Shear Parameters			Silt Factor	Consolidation Test		For Rock					
						Gravel % - 4.75 mm & above	Sand % - 0.075 to 4.75 mm	Silt % - 0.002 to 0.075 mm	Clay % - Less than 0.002 mm	Liquid Limit	Plastic Limit	Plasticity Index				Cohesion kg/sq.cm.	Degree	Type of Test		c.c.	p.c. kg/sq.cm.	Water Absorption (%)	Porosity	Hardness	Unconfined Compressive Strength (kg/cm <sup>2</sup> )	Modulus of Elasticity	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
10.00	11.00	Core	Highly Weathered Rock of Weak in Strength		HWR								2.19		2.70							3.32	0.19		16		
11.00	12.00	Core			HWR										2.20		2.71						3.03	0.19			18
12.00	13.00	Core			HWR										2.23		2.71						2.97	0.18			16
13.00	14.00	Core			HWR										2.25		2.71						2.84	0.17			22
14.00	15.00	Core			HWR										2.28		2.72						2.69	0.16			27
15.00	16.00	Core	Moderately Weathered Rock of Moderately Weak in Strength		MWR									2.30		2.72							2.87	0.15			56
16.00	17.00	Core	Highly Weathered Rock of Weak in Strength		HWR									2.31		2.71							2.65	0.15			39
17.00	18.00	Core			HWR										2.32		2.72						2.54	0.15			45
18.00	19.00	Core	Highly Weathered Rock of Moderately Weak in Strength		HWR																						
19.00	20.00	Core			HWR										2.34		2.73						2.12	0.14			66

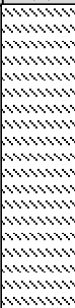







## BORELOG

Borehole - A1

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%) )	RQD (%) )	Remark							
								N1	N2	N3													
Machine Drilling	Not Used	150 mm.	3.50 M	0.00	2.00		Clay of Medium Plasticity	3	5	7	12	0.00											
				1.00																			
				2.00	2.00		Completely Weathered Rock recovered in Granular pieces					1.50	2.00	3.00									
				3.00																			
				4.00	2.00		Highly Weathered Rock of Very Weak in Strength					2.00	4.00	5.00	11.00	NIL							
				5.00																			
				6.00	3.00		Highly Weathered Rock of Moderately Weak in Strength					3.00	6.00	7.00	14.00	22.00							
				7.00																			
				8.00																			
				9.00																			

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## BORELOG

Borehole - A1

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	3.50 M	10.00	4.00		Moderately Weathered Rock of Moderately Strong in Strength					10.00		75.00	50.00	
				11.00								11.00		82.00	55.00	
				12.00								12.00		85.00	65.00	
				13.00								13.00		86.00	61.00	
				14.00	2.00		Slightly Weathered Rock of Strong in Strength					14.00		85.00	70.00	
				15.00								15.00		88.00	72.00	
				16.00								16.00		93.00	75.00	
				17.00								17.00		95.00	92.00	
				18.00			Fresh Rock of Strong in strength					18.00		97.00	95.00	
				19.00												

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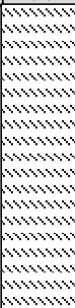









### BORELOG

Borehole - P 01

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%) )	RQD (%) )	Remark										
								N1	N2	N3																
Machine Drilling	Not Used	150 mm.	3.60 M	0.00	2.00		Clay of Medium Plasticity	3	4	5	9		0.00													
				1.00									2.00					Completely Weathered Rock recovered in Granular pieces	1.50							
				2.00	2.00		2.00																			
							2.00										3.00									
				4.00													Highly Weathered Rock of Very Weak in Strength	4.00								
				5.00	5.00	10.00												NIL								
				6.00	2.00		6.00						15.00					10.00								
				7.00			7.00						32.00				22.00									
				8.00			8.00						36.00				28.00									
				9.00	3.00		Highly Weathered Rock of Moderately Weak in Strength																			







### BORELOG

Borehole - P 01

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	3.60 M	10.00	4.00		Moderately Weathered Rock of Moderately Strong in Strength					10.00		74.00	52.00	
				11.00								11.00		79.00	55.00	
				12.00								12.00		82.00	62.00	
				13.00								13.00		86.00	69.00	
				14.00	2.00		Slightly Weathered Rock of Strong in Strength					14.00		89.00	73.00	
				15.00								15.00		91.00	78.00	
				16.00								16.00		93.00	83.00	
				17.00								17.00		95.00	88.00	
				18.00								18.00		97.00	95.00	
				19.00												

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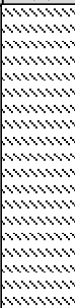







### BORELOG

Borehole - P 02

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%) )	RQD (%) )	Remark			
								N1	N2	N3									
Machine Drilling	Not Used	150 mm.	3.60 M	0.00	2.00		Clay of Medium Plasticity	4	5	5	10		0.00						
				1.00														1.50	
				2.00									2.00					Completely Weathered Rock recovered in Granular pieces	2.00
					3.00														
					2.00		Highly Weathered Rock of Very Weak in Strength												4.00
				5.00															5.00
				6.00									6.00				15.00	NIL	
													3.00					Highly Weathered Rock of Moderately Weak in Strength	7.00
				8.00	8.00	34.00	26.00												
				9.00	9.00	40.00	32.00												







### BORELOG

Borehole - P 02

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	3.60 M	10.00	4.00		Moderately Weathered Rock of Moderately Strong in Strength					10.00		61.00	53.00	
				11.00								11.00		72.00	64.00	
				12.00								12.00		84.00	75.00	
				13.00								13.00		89.00	83.00	
				14.00	4.00		Slightly Weathered Rock of Strong in Strength					14.00		91.00	86.00	
				15.00								15.00		93.00	89.00	
				16.00								16.00		94.00	90.00	
				17.00								17.00		97.00	93.00	
				18.00	2.00		Fresh Rock of Strong in strength					18.00		99.00	95.00	
				19.00												

S. Naveen

Vishwas Geotech Pvt. Ltd.









## BORELOG

Borehole - P 03

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%) )	RQD (%) )	Remark	
								N1	N2	N3							
Machine Drilling	Not Used	150 mm.	3.60 M	0.00	2.00		Clay of Medium Plasticity	4	5	5	10		0.00				
				1.00													
				2.00									1.50				
					2.00		Completely Weathered Rock recovered in Granular pieces					2.00					
				3.00								3.00					
				4.00								4.00					
					2.00		Highly Weathered Rock of Very Weak in Strength					5.00	14.00				NIL
				5.00								6.00	17.00				NIL
				6.00													
					3.00		Highly Weathered Rock of Moderately Weak in Strength					7.00	34.00				26.00
				7.00													
				8.00								8.00	52.00				31.00
				9.00								9.00	59.00				35.00







## BORELOG

Borehole - P 03

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	3.60 M	10.00	4.00		Moderately Weathered Rock of Moderately Strong in Strength					10.00		65.00	52.00	
				11.00								11.00		72.00	57.00	
				12.00								12.00		79.00	66.00	
				13.00								13.00		82.00	74.00	
				14.00	4.00		Slightly Weathered Rock of Strong in Strength					14.00		89.00	78.00	
				15.00								15.00		91.00	85.00	
				16.00								16.00		94.00	89.00	
				17.00								17.00		96.00	92.00	
				18.00	2.00		Fresh Rock of Strong in strength					18.00		98.00	95.00	
				19.00												

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### BORELOG

Borehole - P 04

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%) )	RQD (%) )	Remark		
								N1	N2	N3								
Machine Drilling	Not Used	150 mm.	3.60 M	0.00	2.00		Clay of High Plasticity	4	5	5	10		0.00					
				1.00														
				2.00									1.50					
					2.00		Completely Weathered Rock recovered in Granular pieces					2.00						
				3.00								3.00						
				4.00								4.00						
				5.00								5.00	11.00				NIL	
				6.00	5.00		Highly Weathered Rock of Moderately Weak in Strength					6.00	15.00				NIL	
				7.00								7.00	28.00				12.00	
				8.00								8.00	32.00				25.00	
				9.00								9.00	37.00				29.00	







## BORELOG

Borehole - P 04

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	3.60 M	10.00	4.00		Moderately Weathered Rock of Moderately Strong in Strength					10.00		67.00	57.00	
				11.00								11.00		78.00	62.00	
				12.00								12.00		82.00	68.00	
				13.00								13.00		84.00	74.00	
				14.00	6.00		Slightly Weathered Rock of Strong in Strength					14.00		87.00	81.00	
				15.00								15.00		91.00	85.00	
				16.00								16.00		93.00	89.00	
				17.00								17.00		94.00	90.00	
				18.00								18.00		95.00	92.00	
				19.00												

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## BORELOG

Borehole - P 05

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%) )	RQD (%) )	Remark						
								N1	N2	N3												
Machine Drilling	Not Used	150 mm.	3.60 M	0.00	2.00		Clay of High Plasticity	4	5	5	10		0.00									
				1.00																		
				2.00	1.00		Completely Weathered Rock recovered in Granular pieces						1.50									
				3.00																		
					1.00		Highly Weathered Rock of Very Weak in Strength															
				4.00			10.00						NIL									
					5.00		Highly Weathered Rock of Moderately Weak in Strength															
				5.00			46.00						18.00									
				6.00			51.00						20.00									
				7.00			56.00						25.00									
				8.00			62.00						28.00									
				9.00			67.00						32.00									

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## BORELOG

Borehole - P 05

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	3.60 M	10.00	4.00		Moderately Weathered Rock of Moderately Strong in Strength					10.00		74.00	61.00	
				11.00								11.00		79.00	65.00	
				12.00								12.00		83.00	70.00	
				13.00								13.00		85.00	74.00	
				14.00	5.00		Slightly Weathered Rock of Strong in Strength					14.00		87.00	80.00	
				15.00								15.00		90.00	83.00	
				16.00								16.00		92.00	86.00	
				17.00								17.00		96.00	87.00	
				18.00								18.00		98.00	90.00	
				19.00	1.00		Fresh Rock of Strong in strength									

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### BORELOG

Borehole - P06

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark					
								N1	N2	N3											
Machine Drilling	Not Used	150 mm.	3.60 M	0.00	2.00		Clay of High Plasticity	4	5	5	10		0.00								
				1.00																	
													1.50								
				2.00	1.00		Completely Weathered Rock recovered in Granular pieces						2.00								
				3.00									3.00								
				4.00	2.00		Highly Weathered Rock of Very Weak in Strength						4.00	10.00	NIL						
				5.00									5.00	13.00	NIL						
				6.00	4.00		Highly Weathered Rock of Moderately Weak in Strength						6.00	46.00	23.00						
				7.00									7.00	53.00	26.00						
				8.00									8.00	57.00	29.00						
				9.00									9.00	62.00	31.00						










## BORELOG

Borehole - P06

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark				
								N1	N2	N3										
Machine Drilling	Not Used	150 mm.	3.60 M		3.00		Moderately Weathered Rock of Moderately Strong in Strength					10.00		74.00	66.00					
				11.00								11.00	79.00	71.00						
				12.00								12.00	83.00	75.00						
				13.00	6.00		Slightly Weathered Rock of Strong in Strength					13.00		85.00	78.00					
				14.00								14.00		87.00	81.00					
				15.00								15.00		90.00	85.00					
				16.00								16.00		92.00	86.00					
				17.00								17.00		95.00	89.00					
				18.00								18.00		97.00	92.00					
				19.00	1.00		Fresh Rock of Strong in strength													

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## BORELOG

Borehole - P07

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%) )	RQD (%) )	Remark	
								N1	N2	N3							
Machine Drilling	Not Used	150 mm.	3.60 M	0.00	2.00		Clay of Medium Plasticity	4	5	5	10		0.00				
				1.00													
				2.00	1.00		Completely Weathered Rock recovered in Granular pieces					1.50					
				3.00													
					3.00		Highly Weathered Rock of Very Weak in Strength										
				4.00								4.00		10.00	NIL		
				5.00								5.00		11.00	NIL		
					3.00		Highly Weathered Rock of Moderately Weak in Strength										
				6.00								6.00		52.00	23.00		
				7.00								7.00		59.00	25.00		
				8.00								8.00		63.00	28.00		
				9.00								9.00		67.00	31.00		







## BORELOG

Borehole - P07

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	3.60 M	10.00	4.00		Moderately Weathered Rock of Moderately Strong in Strength					10.00		78.00	67.00	
				11.00								11.00		82.00	71.00	
				12.00								12.00		85.00	74.00	
				13.00	4.00		Slightly Weathered Rock of Strong in Strength					13.00		88.00	83.00	
				14.00								14.00		90.00	86.00	
				15.00								15.00		91.00	88.00	
				16.00								16.00		94.00	90.00	
				17.00	2.00		Fresh Rock of Strong in strength					17.00		96.00	93.00	
				18.00								18.00		99.00	96.00	
				19.00												

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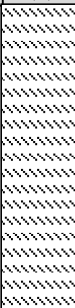







### BORELOG

Borehole - P08

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%) )	RQD (%) )	Remark			
								N1	N2	N3									
Machine Drilling	Not Used	150 mm.	3.60 M	0.00	2.00		Clay of Medium Plasticity	4	5	5	10		0.00						
				1.00									1.00					Completely Weathered Rock recovered in Granular pieces	1.50
				2.00	2.00														
					3.00		Highly Weathered Rock of Very Weak in Strength						3.00						
				4.00									4.00				10.00	NIL	
				5.00									5.00	13.00	NIL				
				6.00									6.00	15.00	NIL				
					3.00		Highly Weathered Rock of Moderately Weak in Strength						7.00	46.00	23.00				
				8.00									8.00	57.00	26.00				
				9.00									9.00	69.00	30.00				







## BORELOG

Borehole - P08

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M )	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	3.60 M	10.00	4.00		Moderately Weathered Rock of Moderately Strong in Strength					10.00		72.00	47.00	
				11.00								11.00		75.00	59.00	
				12.00								12.00		80.00	68.00	
				13.00								13.00		84.00	72.00	
				14.00	4.00		Slightly Weathered Rock of Strong in Strength					14.00		90.00	81.00	
				15.00								15.00		92.00	83.00	
				16.00								16.00		93.00	86.00	
				17.00								17.00		95.00	89.00	
				18.00	2.00		Fresh Rock of Strong in strength					18.00		97.00	93.00	
				19.00												

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## BORELOG

Borehole - P09

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark															
								N1	N2	N3																					
Machine Drilling	Not Used	150 mm.	3.60 M	0.00	2.00		Clay of Medium Plasticity	4	5	5	10	0.00	1.50																		
				1.00																											
				2.00																											
					2.00		Completely Weathered Rock recovered in Granular pieces												2.00	3.00	4.00										
				3.00																											
				4.00																											
				5.00	3.00		Highly Weathered Rock of Very Weak in Strength											5.00	11.00	NIL											
				6.00																											
				7.00	2.00		Highly Weathered Rock of Moderately Weak in Strength											6.00	13.00	NIL							32.00	19.00			
				8.00																											
9.00																															







## BORELOG

Borehole - P09

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M )	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	3.60 M	10.00	2.00		Moderately Weathered Rock of Moderately Strong in Strength					10.00		68.00	47.00	
				11.00								11.00		76.00	57.00	
				12.00								12.00		83.00	63.00	
				13.00								13.00		87.00	68.00	
				14.00			Slightly Weathered Rock of Strong in Strength					14.00		89.00	73.00	
				15.00								15.00		91.00	82.00	
				16.00								16.00		92.00	84.00	
				17.00								17.00		93.00	87.00	
				18.00								18.00		95.00	90.00	
				19.00												

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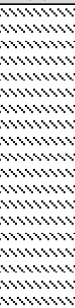







## BORELOG

Borehole - P10

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%) )	RQD (%)	Remark			
								N1	N2	N3									
Machine Drilling	Not Used	150 mm.	3.60 M	0.00	2.00		Clay of Medium Plasticity	4	5	5	10	0.00							
				1.00															
				2.00															
					2.00		Completely Weathered Rock recovered in Granular pieces					1.50	2.00		3.00				
				3.00															
				4.00															
				5.00	3.00		Highly Weathered Rock of Very Weak in Strength					2.00		5.00	15.00	NIL			
				6.00															
				7.00															
				8.00	2.00		Highly Weathered Rock of Moderately Weak in Strength					8.00		7.00	26.00	15.00			
				9.00															







## BORELOG

Borehole - P10

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	3.60 M	10.00	2.00		Moderately Weathered Rock of Moderately Strong in Strength					10.00		74.00	67.00	
				11.00								11.00		80.00	75.00	
				12.00								12.00		83.00	77.00	
				13.00			Slightly Weathered Rock of Strong in Strength					13.00		85.00	79.00	
				14.00								14.00		88.00	81.00	
				15.00								15.00		91.00	83.00	
				16.00								16.00		93.00	86.00	
				17.00								17.00		95.00	88.00	
				18.00								18.00		96.00	91.00	
				19.00												
					8.00											

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### BORELOG

Borehole - P11

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark											
								N1	N2	N3																	
Machine Drilling	Not Used	150 mm.	3.60 M	0.00	3.00		Clay of High Plasticity	4	5	5	10		0.00														
				1.00																							
				2.00																							
				3.00																							
					1.00		Completely Weathered Rock Recovered in Granular Form						3.00														
				4.00	4.00																						
					3.00		Highly Weathered Rock of Very Waeak in Strength						5.00					14.00	NIL								
				5.00																							
												6.00					16.00	NIL									
				6.00																							
												7.00					27.00	14.00									
				7.00	1.00		Highly Weathered Rock of Weak in Strength																				
				8.00								8.00					54.00	22.00									
					1.00		Highly Weathered Rock of Moderately Weak in Strength																				
				9.00		9.00							66.00				30.00										











## BORELOG

Borehole - P11

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	3.60 M		3.00		Highly Weathered Rock of Moderately Weak in Strength					10.00		77.00	39.00	
				11.00									81.00	46.00		
				12.00									83.00	57.00		
					2.00		Highly Weathered Rock of Moderately Strong in Strength					13.00		86.00	65.00	
				14.00									89.00	69.00		
				15.00									91.00	72.00		
					3.00		Moderately Weathered Rock of Moderately Strong in Strength					16.00		93.00	74.00	
				17.00									95.00	79.00		
				18.00									97.00	86.00		
					2.00		Slightly Weathered Rock of Strong in Strength					19.00				

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### BORELOG

Borehole - P12

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark			
								N1	N2	N3									
Machine Drilling	Not Used	150 mm.	3.60 M	0.00	3.00		Clay of High Plasticity	4	5	5	10		0.00						
				1.00															
				2.00								2.00							
				3.00								3.00							
					1.00		Completely Weathered Rock Recovered in Granular Form												
				4.00								4.00							
				5.00								5.00	11.00				NIL		
				6.00	3.00		Highly Weathered Rock of Very Waeak in Strength					6.00	14.00				NIL		
				7.00								7.00	27.00				18.00		
				8.00								8.00	36.00				24.00		
					1.00		Highly Weathered Rock of Weak in Strength												
					1.00		Highly Weathered Rock of Moderately Weak in Strength												
				9.00								9.00	47.00				30.00		











### BORELOG

Borehole - P12

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	3.60 M		3.00		Highly Weathered Rock of Moderately Weak in Strength					10.00		76.00	42.00	
				11.00									79.00	46.00		
				12.00									82.00	52.00		
				13.00	3.00		Highly Weathered Rock of Moderately Strong in Strength					13.00		83.00	58.00	
				14.00									84.00	63.00		
				15.00									87.00	71.00		
				16.00	2.00		Moderately Weathered Rock of Moderately Strong in Strength					16.00		91.00	73.00	
				17.00									94.00	79.00		
				18.00	2.00		Slightly Weathered Rock of Strong in Strength					18.00		96.00	87.00	
				19.00												

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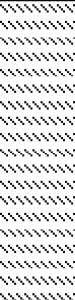








## BORELOG

Borehole - P13

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%) )	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	3.60 M	0.00	2.00		Clay of Medium Plasticity	5	6	7	13	0.00	1.50		NIL	
				1.00												
				2.00	2.00		Completely Weathered Rock recovered in Granular pieces									
				3.00												
				4.00	3.00		Highly Weathered Rock of Very Weak in Strength									
				5.00												
				6.00	2.00		Highly Weathered Rock of Moderately Weak in Strength									
				7.00												
				8.00	2.00		Highly Weathered Rock of Moderately Weak in Strength									
				9.00												





## BORELOG

Borehole - P13

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	3.60 M	10.00	2.00		Moderately Weathered Rock of Moderately Strong in Strength					10.00		76.00	47.00	
				11.00								11.00		82.00	72.00	
				12.00	2.00		Slightly Weathered Rock of Strong in Strength					12.00		87.00	76.00	
				13.00								13.00		95.00	92.00	
				14.00	1.00		Fresh Rock of Strong in Strength					14.00		88.00	83.00	
				15.00								15.00		91.00	88.00	
				16.00								16.00		96.00	89.00	
				17.00	5.00		Slightly Weathered Rock of Strong in Strength					17.00		93.00	91.00	
				18.00								18.00		96.00	93.00	
				19.00												

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Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%) )	RQD (%) )	Remark	
				N1	N2			N3									
Machine Drilling	Not Used	150 mm.	3.60 M	0.00	1.50		Clay of Medium Plasticity	4	5	5	10		0.00				
				1.00													
					4.50		Completely Weathered Rock Recovered in Residual Form		10	13	16	29		1.50			
				2.00													
				3.00													
				4.00													
				5.00													
				6.00	3.00		Highly Weathered Rock of Very Weak in Strength					6.00	10.00	NIL			
				7.00													
				8.00													
9.00																	








### BORELOG

Borehole - P14

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark		
								N1	N2	N3								
Machine Drilling	Not Used	150 mm.	3.60 M		2.00		Highly Weathered Rock of Moderately weak in Strength											
				10.00												10.00	63.00	32.00
				11.00														
				12.00	3.00		Moderately Weathered Rock of Moderately Strong in Strength									11.00	72.00	52.00
				13.00												12.00	78.00	69.00
				14.00												13.00	82.00	72.00
				15.00												14.00	86.00	77.00
				16.00	3.00		Slightly Weathered Rock of Moderately Strong in Strength									15.00	89.00	80.00
				17.00												16.00	92.00	87.00
				18.00												17.00	94.00	88.00
19.00	2.00	Slightly Weathered Rock of Strong in Strength	18.00	97.00	90.00													

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### BORELOG

Borehole - P15

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery ( % )	RQD ( % )	Remark			
								N1	N2	N3									
Machine Drilling	Not Used	150 mm.	3.60 M	0.00	1.50		Clay of High Plasticity	4	5	5	10		0.00						
				1.00															
					3.50		Completely Weathered Rock Recovered in Residual Form												
				2.00													2.00		
																	3.00		
				3.00													4.00		
				4.00													5.00		
				5.00															
					4.00		Highly Weathered Rock of Very Weak in Strength												
				6.00													6.00	12.00	NIL
																	7.00	30.00	14.00
				7.00													8.00	36.00	19.00
				8.00															
				9.00													9.00	42.00	26.00







## BORELOG

Borehole - P15

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	3.60 M	10.00	5.00		Moderately Weathered Rock of Moderately Strong in Strength					10.00		70.00	48.00	
				11.00								11.00		76.00	56.00	
				12.00								12.00		79.00	69.00	
				13.00								13.00		85.00	74.00	
				14.00	3.00		Slightly Weathered Rock of Moderately Strong in Strength					14.00		92.00	84.00	
				15.00								15.00		94.00	89.00	
				16.00								16.00		97.00	92.00	
				17.00								17.00		96.00	93.00	
				18.00	2.00		Slightly Weathered Rock of Strong in Strength					18.00		98.00	94.00	
				19.00												

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## BORELOG

Borehole - P16

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%) )	RQD (%) )	Remark					
								N1	N2	N3											
Machine Drilling	Not Used	150 mm.	3.60 M	0.00	1.50		Clay of High Plasticity	4	5	5	10		0.00								
				1.00																	
					3.50		Completely Weathered Rock Recovered in Residual Form						1.50								
				2.00																	
													2.00								
				3.00																	
													3.00								
				4.00																	
					4.00		Highly Weathered Rock of Very Weak in Strength						4.00								
				5.00																	
													5.00	12.00	NIL						
				6.00																	
													6.00	15.00	NIL						
				7.00																	
													7.00	29.00	11.00						
				8.00																	
													8.00	42.00	12.00						
				9.00																	
													9.00	56.00	14.00						







## BORELOG

Borehole - P16

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	3.60 M	10.00	5.00		Moderately Weathered Rock of Moderately Strong in Strength					10.00		73.00	54.00	
				11.00								11.00		79.00	63.00	
				12.00								12.00		82.00	69.00	
				13.00								13.00		85.00	71.00	
				14.00								14.00		89.00	74.00	
				15.00	3.00		Slightly Weathered Rock of Moderately Strong in Strength					15.00		93.00	79.00	
				16.00								16.00		96.00	85.00	
				17.00								17.00		98.00	89.00	
				18.00	2.00		Slightly Weathered Rock of Strong in Strength					18.00		97.00	92.00	
				19.00												

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## BORELOG

Borehole - P17

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%) )	RQD (%) )	Remark					
								N1	N2	N3											
Machine Drilling	Not Used	150 mm.	3.60 M	0.00	2.00		Clay of High Plasticity	4	5	5	10		0.00								
				1.00																	
				2.00	3.00		Completely Weathered Rock recovered in Granular pieces						1.50								
				3.00																	
				4.00																	
					2.00		Highly Weathered Rock of Very Weak in Strength														
				5.00																	
				6.00																	
					2.00		Highly Weathered Rock of Moderately Weak in Strength														
				7.00																	
				8.00																	
				9.00																	

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## BORELOG

Borehole - P17

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	3.60 M		1.00		Moderately Weathered Rock of Moderately Strong in Strength					10.00		83.00	76.00	
				10.00												
				11.00								11.00		87.00	79.00	
				12.00	3.00		Slightly Weathered Rock of Moderately Strong in Strength					12.00		90.00	84.00	
				13.00								13.00		92.00	88.00	
				14.00	2.00		Fresh Rock of Strong in Strength					14.00		94.00	93.00	
				15.00								15.00		97.00	96.00	
				16.00	2.00		Slightly Weathered Rock of Strong in Strength					16.00		95.00	92.00	
				17.00								17.00		97.00	94.00	
				18.00	2.00		Fresh Rock of Strong in Strength					18.00		98.00	93.00	
				19.00												

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## BORELOG

Borehole - P18

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	3.60 M	0.00	3.00		Clay of High Plasticity						0.00			
				1.00												
				2.00				4	5	5	10		1.50			
				3.00				5	8	9	17		2.00			
					2.00		Completely Weathered Rock recovered in Granular pieces					3.00				
				4.00								4.00				
				5.00								5.00	11.00	NIL		
				6.00	3.00		Highly Weathered Rock of Moderately Weak in Strength					6.00		14.00	NIL	
				7.00								7.00	34.00	16.00		
				8.00								8.00	42.00	24.00		
					1.00		Highly Weathered Rock of Moderately Strong in Strong									
				9.00								9.00	48.00	29.00		







### BORELOG

Borehole - P18

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	3.60 M		1.00		Highly Weathered Rock of Moderately Strong in Strength					10.00		75.00	62.00	
				10.00												
				11.00	2.00		Moderately Weathered Rock of Strong in Strength					11.00		79.00	66.00	
				12.00								12.00		83.00	78.00	
				13.00								13.00		86.00	83.00	
				14.00								14.00		90.00	86.00	
				15.00	5.00		Slightly Weathered Rock of Strong in Strength					15.00		92.00	89.00	
				16.00								16.00		95.00	91.00	
				17.00								17.00		98.00	95.00	
				18.00	2.00		Fresh Rock of Strong in Strength					18.00		99.00	97.00	
				19.00												

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## BORELOG

Borehole - P19

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	3.60 M	0.00	3.00		Clay of High Plasticity						0.00			
				1.00												
				2.00				4	5	5	10		1.50			
				3.00				5	8	9	17		2.00			
					2.00		Completely Weathered Rock recovered in Granular pieces					3.00				
				4.00								4.00				
				5.00								5.00	10.00	NIL		
				6.00	3.00		Highly Weathered Rock of Moderately Weak in Strength					6.00		32.00	12.00	
				7.00								7.00	47.00	15.00		
				8.00								8.00	58.00	23.00		
					1.00		Highly Weathered Rock of Moderately Strong in Strong									
				9.00								9.00	63.00	27.00		







## BORELOG

Borehole - P19

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	3.60 M		1.00		Highly Weathered Rock of Moderately Strong in Strength					10.00		74.00	48.00	
				10.00												
				11.00	2.00		Moderately Weathered Rock of Strong in Strength					11.00		79.00	56.00	
				12.00								12.00		83.00	69.00	
				13.00								13.00		86.00	79.00	
				14.00								14.00		89.00	82.00	
				15.00	5.00		Slightly Weathered Rock of Strong in Strength					15.00		90.00	84.00	
				16.00								16.00		93.00	86.00	
				17.00								17.00		95.00	90.00	
				18.00	2.00		Fresh Rock of Strong in Strength					18.00		97.00	94.00	
				19.00												

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## BORELOG

Borehole - P20

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%) )	RQD (%) )	Remark					
								N1	N2	N3											
Machine Drilling	Not Used	150 mm.	3.60 M	0.00	2.00		Clay of High Plasticity	4	5	5	10		0.00								
				1.00																	
													1.50								
				2.00	3.00		Completely Weathered Rock recovered in Granular pieces						2.00								
				3.00									3.00								
				4.00									4.00								
				5.00	1.00		Highly Weathered Rock of Very Weak in Strength						5.00	11.00	NIL						
				6.00	2.00		Highly Weathered Rock of Moderately Weak in Strength						6.00	15.00	10.00						
				7.00									7.00	28.00	12.00						
				8.00	1.00		Highly Weathered Rock of Moderately Strong in Strength						8.00	56.00	42.00						
				9.00									9.00	62.00	55.00						

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### BORELOG

Borehole - P20

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	3.60 M		1.00		Moderately Weathered Rock of Moderately Strong in Strength					10.00		76.00	72.00	
				10.00												
				11.00								11.00		80.00	75.00	
				12.00	3.00		Slightly Weathered Rock of Strong in Strength					12.00		83.00	77.00	
				13.00								13.00		89.00	83.00	
				14.00	1.00		Fresh Rock of Strong in Strength					14.00		92.00	87.00	
				15.00								15.00		94.00	89.00	
				16.00	3.00		Slightly Weathered Rock of Strong in Strength					16.00		96.00	92.00	
				17.00								17.00		94.00	90.00	
				18.00	2.00		Fresh Rock of Strong in Strength					18.00		98.00	94.00	
				19.00												

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## BORELOG

Borehole - P21

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%) )	RQD (%)	Remark											
								N1	N2	N3																	
Machine Drilling	Not Used	150 mm.	3.60 M	0.00	2.00		Clay of High Plasticity	3	4	5	9		0.00														
				1.00																							
				2.00																							
				3.00	2.00		Completely Weathered Rock recovered in Granular pieces																				
				4.00																							
				5.00								3.00	Highly Weathered Rock of Very Weak in Strength														
				6.00																							
				7.00																							
				8.00	1.00	Highly Weathered Rock of Moderately Weak in Strength																					
				9.00																							
				1.00			Moderately Weathered Rock of Moderately Strong in Strong																				
				2.00																							
				3.00																							
				4.00																							








### BORELOG

Borehole - P21

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark				
								N1	N2	N3										
Machine Drilling	Not Used	150 mm.	3.60 M		1.00		Moderately Weathered Rock of Moderately Strong in Strength					10.00		78.00	70.00					
				10.00			Slightly Weathered Rock of Strong in Strength					11.00		81.00	75.00					
				11.00								12.00		86.00	81.00					
				12.00								13.00		89.00	83.00					
				13.00								14.00		93.00	89.00					
				14.00	1.00		Fresh Rock of Strong in Strength					15.00		91.00	84.00					
				15.00			Slightly Weathered Rock of Strong in Strength					16.00		94.00	87.00					
				16.00								17.00		96.00	91.00					
				17.00								18.00		97.00	92.00					
				18.00			Fresh Rock of Strong in Strength					19.00								
				19.00																
					2.00															

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### BORELOG

Borehole - P22

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark		
								N1	N2	N3								
Machine Drilling	Not Used	150 mm.	3.60 M	0.00	2.00		Clay of High Plasticity	4	5	5	10	0.00	1.50					
				1.00														
				2.00														
					3.00		Completely Weathered Rock recovered in Granular pieces					2.00	3.00				4.00	5.00
				3.00														
				4.00														
				5.00														
					2.00		Highly Weathered Rock of Very Weak in Strength					6.00	7.00				8.00	
				6.00														
				7.00														
					1.00		Highly Weathered Rock of Moderately Weak in Strength					8.00	9.00					
				8.00														
					1.00		Moderately Weathered Rock of Moderately Strong in Strong					9.00						
				9.00														

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## BORELOG

Borehole - P22

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	3.60 M		1.00		Moderately Weathered Rock of Moderately Strong in Strength					10.00		80.00	75.00	
				10.00												
				11.00								11.00		82.00	77.00	
				12.00	3.00		Slightly Weathered Rock of Strong in Strength					12.00		85.00	79.00	
				13.00								13.00		95.00	90.00	
				14.00	2.00		Fresh Rock of Strong in Strength					14.00		95.00	92.00	
				15.00								15.00		85.00	82.00	
				16.00	2.00		Slightly Weathered Rock of Strong in Strength					16.00		90.00	85.00	
				17.00								17.00		97.00	95.00	
				18.00	2.00		Fresh Rock of Strong in Strength					18.00		92.00	90.00	
				19.00												












## BORELOG

Borehole - P23

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%) )	RQD (%)	Remark	
								N1	N2	N3							
Machine Drilling	Not Used	150 mm.	3.50 M	0.00	2.00		Clay of High Plasticity	4	5	6	11	0.00	1.50				
				1.00													
				2.00													
					2.00		Completely Weathered Rock recovered in Granular pieces					2.00	3.00				
				3.00													
				4.00													
					3.00		Highly Weathered Rock of Very Weak in Strength					5.00	15.00				NIL
				5.00													
				6.00													
				7.00													
					1.00		Highly Weathered Rock of Moderately Weak in Strength					8.00	57.00				33.00
				8.00													
					1.00		Moderately Weathered Rock of Moderately Strong in Strength					9.00	63.00				44.00
				9.00													










## BORELOG

Borehole - P23

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	3.50 M		1.00		Moderately Weathered Rock of Moderately Strong in Strength					10.00		85.00	75.00	
				10.00												
				11.00	5.00		Slightly Weathered Rock of Strong in Strength					11.00		84.00	79.00	
				12.00								12.00		85.00	76.00	
				13.00								13.00		88.00	80.00	
				14.00								14.00		90.00	77.00	
				15.00								15.00		93.00	90.00	
				16.00	4.00		Fresh Rock of Strong in Strength					16.00		95.00	92.00	
				17.00								17.00		97.00	95.00	
				18.00								18.00		95.00	92.00	
				19.00												

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## BORELOG

Borehole - P24

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark					
								N1	N2	N3											
Machine Drilling	Not Used	150 mm.	3.90 M	0.00	1.50		Clay of High Plasticity	10	15	21	36		0.00								
				1.00																	
					2.50		Completely Weathered Rock recovered in Granular pieces						1.50								
				2.00																	
													2.00								
				3.00									3.00								
				4.00									4.00	16.00	NIL						
					3.00		Highly Weathered Rock of Very Weak in Strength						5.00	19.00	NIL						
				5.00																	
				6.00									6.00	21.00	NIL						
				7.00									7.00	22.00	10.00						
					2.00		Highly Weathered Rock of Moderately Weak in Strength						8.00	32.00	18.00						
				8.00																	
				9.00									9.00	58.00	25.00						







## BORELOG

Borehole - P24

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	3.90 M	10.00	2.00		Moderately Weathered Rock of Moderately Strong in Strength					10.00		65.00	40.00	
				11.00								11.00		80.00	72.00	
				12.00								12.00		82.00	75.00	
				13.00	4.00		Slightly Weathered Rock of Strong in Strength					13.00		85.00	78.00	
				14.00								14.00		89.00	81.00	
				15.00								15.00		95.00	91.00	
				16.00								16.00		99.00	95.00	
				17.00	4.00		Fresh Rock of Strong in Strength					17.00		95.00	92.00	
				18.00								18.00		96.00	92.00	
				19.00												

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## BORELOG

Borehole - P25

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark						
								N1	N2	N3												
Machine Drilling	Not Used	150 mm.	4.15 M	0.00	2.00		Clay of High Plasticity	4	5	7	12	0.00	1.50									
				1.00																		
				2.00																		
					3.00		Completely Weathered Rock recovered in Granular pieces					2.00										
				3.00								3.00										
				4.00								4.00										
				5.00								5.00	14.00	NIL								
					2.00		Highly Weathered Rock of Very Weak in Strength					6.00	15.00	NIL								
				6.00								7.00	22.00	NIL								
				7.00								8.00	59.00	33.00								
					1.00		Highly Weathered Rock of Moderately Weak in Strength															
				8.00																		
					1.00		Moderately Weathered Rock of Moderately Strong in Stregh															
				9.00			9.00					60.00	35.00									

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### BORELOG

Borehole - P25

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	4.15 M		1.00		Moderately Weathered Rock of Moderately Strong in Strength					10.00		85.00	77.00	
				10.00												
				11.00								11.00		80.00	75.00	
				12.00	3.00		Slightly Weathered Rock of Strong in Strength					12.00		82.00	75.00	
				13.00								13.00		95.00	90.00	
				14.00	2.00		Fresh Rock of Strong in Strength					14.00		95.00	92.00	
				15.00								15.00		85.00	80.00	
				16.00	2.00		Slightly Weathered Rock of Strong in Strength					16.00		89.00	85.00	
				17.00								17.00		98.00	94.00	
				18.00	2.00		Fresh Rock of Strong in Strength					18.00		96.00	93.00	
				19.00												

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### BORELOG

Borehole - P26

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark				
								N1	N2	N3										
Machine Drilling	Not Used	150 mm.	4.00 Mtr	0.00	4.00		Completely weathered rock Recovered in Residual form	7	9	15	24		0.00							
				1.00																
				2.00																
				3.00																
				4.00	4.00		Completely weathered rock Recovered in granular form	45	50/3cm	R		3.00								
				5.00																
				6.00																
				7.00																
8.00	1.00	Moderately weathered rock of Moderately Strong in strength																		
				9.00																







### BORELOG

Borehole - P26

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M )	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	4.00 Mtr	10.00	2.00		Moderately weathered rock of Moderately Strong in strength					10.00		78.00	71.00	
				11.00								11.00		82.00	77.00	
				12.00	1.00		Slightly weathered rock of Moderately Strong in strength					12.00		95.00	91.00	
				13.00	2.00		Fresh Rock of Moderately to Strong in strength					13.00		98.00	94.00	
				14.00								14.00		94.00	89.00	
				15.00	2.00		Slightly weathered rock of Strong in strength					15.00		92.00	85.00	
				16.00								16.00		95.00	93.00	
				17.00	2.00		Fresh Rock of Strong in strength					17.00		97.00	96.00	
				18.00								18.00		99.00	98.00	
				19.00												

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## BORELOG

Borehole - P27

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%) )	RQD (%) )	Remark							
								N1	N2	N3													
Machine Drilling	Not Used	150 mm.	4.50 M	0.00	1.50		Clay of High Plasticity	11	14	20	34	0.00											
				1.00																			
					2.50		Completely Weathered Rock recovered in Granular pieces					2.00											
				2.00																			
				3.00																			
				4.00	3.00		Highly Weathered Rock of Very Weak in Strength					4.00		17.00	NIL								
				5.00																			
				6.00	2.00		Highly Weathered Rock of Moderately Weak in Strength					7.00		23.00	NIL								
				7.00																			
				8.00																			
				9.00																			







## BORELOG

Borehole - P27

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	4.50 M	10.00	2.00		Moderately Weathered Rock of Moderately Strong in Strength					10.00		67.00	41.00	
				11.00								11.00		85.00	75.00	
				12.00								12.00		89.00	77.00	
				13.00	4.00		Slightly Weathered Rock of Strong in Strength					13.00		90.00	74.00	
				14.00								14.00		85.00	79.00	
				15.00								15.00		93.00	89.00	
				16.00								16.00		95.00	90.00	
				17.00	4.00		Fresh Rock of Strong in Strength					17.00		97.00	90.00	
				18.00								18.00		95.00	92.00	
				19.00												

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## BORELOG

Borehole - P28

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%) )	RQD (%) )	Remark				
								N1	N2	N3										
Machine Drilling	Not Used	150 mm.	4.20 M	0.00	2.00		Clay of High Plasticity	5	7	8	15		0.00							
				1.00														1.50		
				2.00													2.00			
					3.00		Completely Weathered Rock recovered in Granular pieces											3.00		
				3.00																
				4.00													4.00			
				5.00													5.00	14.00	NIL	
					2.00		Highly Weathered Rock of Very Weak in Strength											6.00	15.00	NIL
				6.00													7.00	22.00	NIL	
				7.00																
					2.00		Highly Weathered Rock of Moderately Weak in Strength											8.00	30.00	15.00
				8.00													9.00			
				9.00													9.00	57.00	25.00	

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## BORELOG

Borehole - P28

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	4.20 M		1.00		Moderately Weathered Rock of Moderately Strong in Strength					10.00		86.00	77.00	
				10.00												
				11.00								11.00		81.00	75.00	
				12.00	3.00		Slightly Weathered Rock of Moderately Strong in Strength					12.00		84.00	77.00	
				13.00								13.00		87.00	90.00	
				14.00	2.00		Fresh Rock of Strong in Strength					14.00		86.00	92.00	
				15.00								15.00		86.00	79.00	
				16.00	2.00		Slightly Weathered Rock of Strong in Strength					16.00		90.00	82.00	
				17.00								17.00		95.00	92.00	
				18.00	2.00		Fresh Rock of Strong in Strength					18.00		97.00	93.00	
				19.00												

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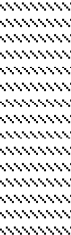







## BORELOG

Borehole - P29

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark		
								N1	N2	N3								
Machine Driling	Not Used	150 mm.	5.20 M	0.00	1.50		Clay of Medium Plasticity	50/9cm	-	-	R		0.00					
				1.00														
					4.50		Completely Weathered Rock Recovered in Residual Form						1.50					
				2.00														
				3.00									3.00					
				4.00									4.50					
				5.00									5.00					
				6.00									6.00				22.00	NIL
					3.00		Highly Weathered Rock of Very Weak in Strength											
				7.00									7.00				25.00	NIL
				8.00									8.00				29.00	NIL
				9.00									9.00				33.00	NIL
					1.00		Highly Weathered Rock of Weak in Strength											
				10.00									10.00				37.00	NIL







## BORELOG

Borehole - P29

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	5.20 M		1.00		Highly Weathered Rock of Weak in Strength					11.00		58.00	25.00	
				11.00								12.00		55.00	26.00	
				12.00								13.00		60.00	30.00	
				13.00								14.00		83.00	78.00	
				14.00								15.00		88.00	80.00	
				15.00								16.00		90.00	80.00	
				16.00								17.00		95.00	85.00	
				17.00								18.00		90.00	87.00	
				18.00												
				19.00												

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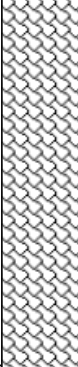





## BORELOG

Borehole - P30

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark						
								N1	N2	N3												
Machine Drilling	Not Used	150 mm.	5.00 M	0.00	1.50		Clay of High Plasticity	28	50/5cm	-	R		0.00									
				1.00																		
				2.00	4.50		Completely Weathered Rock Recovered in Residual Form						1.50		3.00		4.50		5.00			
				3.00																		
				4.00								3.00		Highly Weathered Rock of Very Weak in Strength		6.00	25.00	NIL				
				7.00												28.00	NIL					
				8.00	31.00	NIL																
				9.00	35.00	NIL																
					1.00		Highly Weathered Rock of Weak in Strength						10.00	55.00	27.00							
				10.00																		







## BORELOG

Borehole - P30

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	5.00 M	11.00	4.00		Moderately Weathered Rock of Moderately Weak in Strength					11.00		60.00	33.00	
				12.00								12.00		65.00	39.00	
				13.00								13.00		68.00	42.00	
				14.00								14.00		85.00	75.00	
				15.00	3.00		Slightly Weathered Rock of Moderately Strong in Strength					15.00		89.00	79.00	
				16.00								16.00		92.00	85.00	
				17.00								17.00		90.00	82.00	
				18.00								18.00		90.00	80.00	
				19.00	3.00		Slightly Weathered Rock of Strong in Strength									

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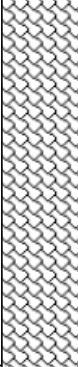





## BORELOG

Borehole - P31

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	5.40 M	0.00	1.50		Clay of High Plasticity	25	50/6cm	-	R	0.00				
				1.00												
				2.00	4.50		Completely Weathered Rock Recovered in Residual Form					1.50				
				3.00												
				4.00								3.00				
				5.00												
				6.00												
				7.00	3.00		Highly Weathered Rock of Very Weak in Strength					6.00	20.00	NIL		
				8.00												
				9.00												
				10.00	1.00		Highly Weathered Rock of Weak in Strength					7.00	25.00	NIL		
												8.00	24.00	NIL		
												9.00	29.00	NIL		
												10.00	57.00	25.00		







### BORELOG

Borehole - P31

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	5.40 M	11.00	4.00		Moderately Weathered Rock of Moderately Weak in Strength					11.00		59.00	25.00	
				12.00								12.00		60.00	30.00	
				13.00								13.00		65.00	33.00	
				14.00								14.00		80.00	77.00	
				15.00	3.00		Slightly Weathered Rock of Moderately Strong in Strength					15.00		85.00	79.00	
				16.00								16.00		90.00	83.00	
				17.00								17.00		95.00	85.00	
				18.00								18.00		95.00	85.00	
				19.00	3.00		Slightly Weathered Rock of Strong in Strength									

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## BORELOG

Borehole - P32

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%) )	RQD (%) )	Remark				
								N1	N2	N3										
Machine Drilling	Not Used	150 mm.	5.40 M	0.00	2.00		Clay of High Plasticity	6	8	9	17	0.00								
				1.00																
				2.00																
					3.00		Completely Weathered Rock recovered in Granular pieces					1.50								
				3.00																
				4.00								2.00								
				5.00																
					2.00		Highly Weathered Rock of Very Weak in Strength					3.00								
				6.00																
				7.00								5.00		19.00	NIL					
					2.00		Highly Weathered Rock of Moderately Weak in Strength					6.00		22.00	NIL					
				8.00								7.00		25.00	NIL					
				9.00								8.00		28.00	15.00					
												9.00		51.00	25.00					







## BORELOG

Borehole - P32

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	5.40 M		1.00		Moderately Weathered Rock of Moderately Strong in Strength					10.00		81.00	75.00	
				10.00												
				11.00								11.00		85.00	75.00	
				12.00	3.00		Slightly Weathered Rock of Strong in Strength					12.00		80.00	72.00	
				13.00								13.00		95.00	90.00	
				14.00	2.00		Fresh Rock of Strong in Strength					14.00		90.00	89.00	
				15.00								15.00		86.00	79.00	
				16.00								16.00		80.00	75.00	
				17.00	4.00		Slightly Weathered Rock of Strong in Strength					17.00		85.00	79.00	
				18.00								18.00		90.00	84.00	
				19.00												

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## BORELOG

Borehole - P33

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%) )	RQD (%) )	Remark		
								N1	N2	N3								
Machine Drilling	Not Used	150 mm.	5.60 M	0.00	2.00		Clay of High Plasticity	5	7	9	16		0.00					
				1.00														
				2.00	3.00		Completely Weathered Rock recovered in Granular pieces					2.00						
				3.00								3.00						
				4.00								4.00						
				5.00	2.00		Highly Weathered Rock of Very Weak in Strength					5.00					17.00	NIL
				6.00								6.00					20.00	NIL
				7.00	2.00		Highly Weathered Rock of Moderately Weak in Strength					7.00					27.00	NIL
				8.00								8.00					30.00	10.00
				9.00								9.00					55.00	28.00

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## BORELOG

Borehole - P33

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	5.60 M		1.00		Moderately Weathered Rock of Moderately Strong in Strength					10.00		80.00	75.00	
				10.00												
				11.00								11.00		86.00	77.00	
				12.00	3.00		Slightly Weathered Rock of Strong in Strength					12.00		83.00	71.00	
				13.00								13.00		92.00	89.00	
				14.00	2.00		Fresh Rock of Strong in Strength					14.00		95.00	90.00	
				15.00								15.00		86.00	80.00	
				16.00								16.00		80.00	75.00	
				17.00	4.00		Slightly Weathered Rock of Strong in Strength					17.00		85.00	81.00	
				18.00								18.00		90.00	80.00	
				19.00												

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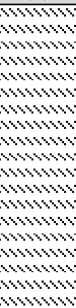







## BORELOG

Borehole - P34

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%) )	RQD (%) )	Remark						
								N1	N2	N3												
Machine Drilling	Not Used	150 mm.	5.50 M	0.00	2.00		Clay of Medium Plasticity	6	8	10	18		0.00									
				1.00																		
				2.00	2.00		Completely Weathered Rock recovered in Granular pieces						1.50									
				3.00																		
				4.00	3.00		Highly Weathered Rock of Very Weak in Strength										15.00	NIL				
				5.00													18.00	NIL				
				6.00	2.00		Highly Weathered Rock of Moderately Weak in Strength										22.00	NIL				
				7.00													29.00	11.00				
				8.00	2.00												35.00	15.00				
				9.00													59.00	31.00				








### BORELOG

Borehole - P34

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	5.50 M		2.00		Moderately Weathered Rock of Moderately Strong in Strength									
				10.00												
				11.00												
					1.00		Slightly Weathered Rock of Strong in Strength									
				12.00												
				13.00												
					2.00		Fresh Rock of Strong in Strength									
				14.00												
				15.00												
					4.00		Slightly Weathered Rock of Strong in Strength									
				16.00												
				17.00												
				18.00												
	19.00															

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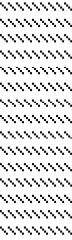







## BORELOG

Borehole - P35

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark		
								N1	N2	N3								
Machine Drilling	Not Used	150 mm.	6.00 M	0.00	1.50		Clay of Medium Plasticity	50/5cm	-	-	R		0.00					
				1.00														1.50
					4.50		Completely Weathered Rock Recovered in Residual Form										1.50	
				2.00														
				3.00									3.00					
				4.00									4.50					
				5.00									5.00					
				6.00									6.00				31.00	NIL
					3.00		Highly Weathered Rock of Very Weak in Strength											
				7.00									7.00				26.00	NIL
				8.00									8.00				32.00	NIL
				9.00									9.00				28.00	NIL
					1.00		Highly Weathered Rock of Weak in Strength											
				10.00									10.00				34.00	NIL







## BORELOG

Borehole - P35

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	6.00 M		1.00		Highly Weathered Rock of Weak in Strength					11.00		45.00	25.00	
				11.00								12.00		48.00	25.00	
				12.00								13.00		45.00	28.00	
				13.00								14.00		81.00	75.00	
				14.00								15.00		85.00	80.00	
				15.00								16.00		89.00	83.00	
				16.00								17.00		95.00	85.00	
				17.00								18.00		90.00	80.00	
				18.00								19.00				
				19.00												

S. Naik

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## BORELOG

Borehole - P36

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark												
								N1	N2	N3																		
Machine Drilling	Not Used	150 mm.	6.00 M	0.00	1.50		Clay of Medium Plasticity	50/6cm	-	-	R		0.00															
				1.00														1.50										
				2.00	4.50		Completely Weathered Rock Recovered in Residual Form																					
				3.00																								
				4.00																								
				5.00																								
				6.00																								
													3.00					Highly Weathered Rock of Very Weak in Strength										
				7.00																								
				8.00																								
				9.00																								
					1.00		Highly Weathered Rock of Weak in Strength																					
				10.00																								







## BORELOG

Borehole - P36

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	6.00 M		1.00		Highly Weathered Rock of Weak in Strength					11.00		45.00	25.00	
				11.00								12.00		48.00	25.00	
				12.00								13.00		45.00	28.00	
				13.00								14.00		81.00	75.00	
				14.00								15.00		85.00	80.00	
				15.00								16.00		89.00	83.00	
				16.00								17.00		95.00	85.00	
				17.00								18.00		90.00	80.00	
				18.00								19.00				
				19.00												

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## BORELOG

Borehole - P37

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark				
								N1	N2	N3										
Machine Drilling	Not Used	150 mm.	5.00 M	0.00	3.00		Clay of High Plasticity	5	6	7	13		0.00							
				1.00																
													1.50							
				2.00																
				3.00									18				22	28	50	
					2.00		Completely Weathered Rock Recovered in Granular Form					4.00								
				4.00																
					1.00		Highly Weathered Rock of Very Weak in Strength					5.00		15.00	NIL					
				5.00																
				6.00								6.00		19.00	NIL					
					1.00		Highly Weathered Rock of Weak in Strength					7.00		23.00	NIL					
				7.00																
					2.00		Highly Weathered Rock of Moderately Weak in Strength					8.00		33.00	10.00					
				8.00																
				9.00								9.00		35.00	12.00					
10.00	10.00		50.00	25.00																







## BORELOG

Borehole - P37

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	5.00 M	11.00	1.00		Moderately Weathered Rock of Moderately Strong in Strength					11.00		59.00	28.00	
				12.00								12.00		80.00	75.00	
				13.00								13.00		85.00	78.00	
				14.00	3.00		Slightly Weathered Rock of Moderately Strong in Strength					14.00		88.00	81.00	
				15.00								15.00		85.00	79.00	
				16.00								16.00		85.00	80.00	
				17.00	5.00		Slightly Weathered Rock of Strong in Strength					17.00		89.00	82.00	
				18.00								18.00		87.00	85.00	
				19.00												

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## BORELOG

Borehole - P38

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark			
								N1	N2	N3									
Machine Drilling	Not Used	150 mm.	5.40 M	0.00	4.00		Clay of High Plasticity	4	5	6	11		0.00						
				1.00															
													1.50						
				2.00															
													3.00						
				3.00															
													4.00						
				4.00															
					1.00		Completely Weathered Rock Recovered in Granular Form					4.00							
				5.00	5.00							17.00				NIL			
					1.00		Highly Weathered Rock of Very Weak in Strength					6.00				20.00	NIL		
				7.00								24.00				NIL			
												1.00				Highly Weathered Rock of Weak in Strength	8.00	29.00	13.00
					2.00		Highly Weathered Rock of Moderately Weak in Strength										9.00	35.00	15.00
				10.00															







## BORELOG

Borehole - P38

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	5.40 M	11.00	2.00		Highly Weathered Rock of Moderately Strong in Strength					11.00		45.00	24.00	
				12.00								12.00		80.00	75.00	
				13.00								13.00		85.00	80.00	
				14.00	4.00		Slightly Weathered Rock of Moderately Strong in Strength					14.00		83.00	78.00	
				15.00								15.00		85.00	80.00	
				16.00								16.00		90.00	81.00	
				17.00								17.00		92.00	83.00	
				18.00								18.00		95.00	87.00	
				19.00	3.00		Slightly Weathered Rock of Strong in Strength									

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## BORELOG

Borehole - P39

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark	
								N1	N2	N3							
Machine Drilling	Not Used	150 mm.	5.50 M	0.00	4.00		Clay of High Plasticity	4	5	5	10		0.00				
				1.00													
													1.50				
				2.00													
													3.00				
				3.00													
													4.00				
				4.00													
					1.00		Completely Weathered Rock Recovered in Granular Form					4.00					
				5.00			5.00					16.00				NIL	
				1.00	Highly Weathered Rock							6.00				19.00	NIL
				6.00			6.00					25.00				NIL	
				1.00	Highly Weathered Rock of Very Weak in Strength							7.00				30.00	15.00
				7.00			7.00					33.00				NIL	
1.00	Highly Weathered Rock of Weak in Strength		8.00														
8.00		8.00															
9.00	2.00	Highly Weathered Rock of Moderately Weak in Strength		9.00													
10.00				10.00	55.00	26.00											








## BORELOG

Borehole - P39

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark				
								N1	N2	N3										
Machine Drilling	Not Used	150 mm.	5.50 M		1.00		Moderately Weathered Rock of Moderately Strong in Strength					11.00	30.00	10.00						
				11.00																
					1.00		Highly Weathered Rock of Moderately Strong in Strength										12.00	83.00	77.00	
				12.00																
					3.00		Slightly Weathered Rock of Moderately Strong in Strength										13.00	85.00	79.00	
				13.00																
				14.00													14.00	80.00	75.00	
				15.00													15.00	83.00	78.00	
					5.00		Slightly Weathered Rock of Strong in Strength										16.00	90.00	82.00	
				16.00																
				17.00													17.00	94.00	85.00	
				18.00													18.00	87.00	79.00	
				19.00																

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## BORELOG

Borehole - P40

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark					
								N1	N2	N3											
Machine Drilling	Not Used	150 mm.	5.80 M	0.00	1.50		Clay of High Plasticity	4	6	7	13		0.00								
				1.00														1.50			
				2.00																	
				3.00	1.00		Completely Weathered Rock Recovered in Granular Pieces	50/9cm	-	-	R		3.00	15.00	NIL						
				4.00									4.00								
					2.00		Highly Weathered Rock of Very Weak in Strength						5.00	18.00	NIL						
				5.00																	
													6.00								
				6.00																	
													7.00								
				7.00																	
					8.00	1.00		Highly Weathered Rock of Weak in Strength					8.00	29.00	10.00						
				8.00																	
					9.00																
				9.00																	
	1.00		Highly Weathered Rock of Moderately Weak in Strength						9.00	35.00	15.00										
		10.00																			







## BORELOG

Borehole - P40

Depth of Bore : 19.00 Mtr



Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	5.80 M		1.00		Highly Weathered Rock of Moderately Weak in Strength					11.00		35.00	12.00	
				11.00								12.00		40.00	17.00	
				12.00			Highly Weathered Rock of Moderately Strong in Strength					13.00		45.00	22.00	
				13.00								14.00		60.00	35.00	
				14.00								15.00		65.00	38.00	
				15.00			Moderately Weathered Rock of Moderately Strong in Strength					16.00		85.00	75.00	
				16.00								17.00		88.00	75.00	
				17.00			Slightly Weathered Rock of Moderately Strong in Strength					18.00		92.00	83.00	
				18.00												
				19.00			Slightly Weathered Rock of Strong in Strength									







## Borehole - P41

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark			
								N1	N2	N3									
Machine Drilling	Not Used	150 mm.	5.50 M	0.00	3.00		Clay of High Plasticity	50/7cm	5	7	12	R	0.00						
				1.00															
				2.00															
				3.00	2.00		Completely Weathered Rock Recovered in Granular Form										4.00	16.00	NIL
													5.00						
				6.00									19.00				NIL		
							7.00											25.00	10.00
				8.00			32.00												
													35.00				15.00		
				9.00														33.00	12.00
				10.00															







## BORELOG

Borehole - P41

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	5.50 M	11.00	2.00		Highly Weathered Rock of Moderately Weak in Strength					11.00		30.00	15.00	
				12.00								12.00		37.00	18.00	
				13.00								13.00		35.00	14.00	
				14.00	3.00		Highly Weathered Rock of Moderately Strong in Strength					14.00		40.00	18.00	
				15.00								15.00		61.00	35.00	
				16.00								16.00		67.00	40.00	
				17.00	2.00		Moderately Weathered Rock of Moderately Strong in Strength					17.00		80.00	74.00	
				18.00								18.00		85.00	77.00	
				19.00	2.00		Slightly Weathered Rock of Strong in Strength									

S. Naveen

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### BORELOG

Borehole - P42

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark					
								N1	N2	N3											
Machine Drilling	Not Used	150 mm.	5.65 M	0.00	1.50		Clay of High Plasticity	7	9	11	20		0.00								
				1.00													1.50				
					1.50		Completely Weathered Rock Recovered in Residual Form						1.50								
				2.00																	
				3.00									3.00								
					2.00		Completely Weathered Rock Recovered in Granular Pieces						4.00								
				4.00																	
				5.00									5.00				15.00	NIL			
					1.00		Highly Weathered Rock of Very Weak in Strength						6.00				25.00	7.00			
				6.00																	
				7.00	1.00		Highly Weathered Rock of Weak in Strength						7.00	29.00	10.00						
				8.00									8.00	35.00	15.00						
					2.00		Highly Weathered Rock of Moderately Weak in Strength						9.00	39.00	18.00						
				9.00																	
				10.00									10.00	33.00	14.00						







## BORELOG

Borehole - P42

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	5.65 M	11.00	2.00		Highly Weathered Rock of Moderately Weak in Strength					11.00		37.00	15.00	
				12.00								12.00		40.00	20.00	
				13.00								13.00		45.00	20.00	
				14.00	3.00		Highly Weathered Rock of Moderately Strong in Strength					14.00		42.00	22.00	
				15.00								15.00		58.00	42.00	
				16.00								16.00		63.00	49.00	
				17.00	4.00		Moderately Weathered Rock of Moderately Strong in Strength					17.00		69.00	51.00	
				18.00								18.00		78.00	62.00	
				19.00												

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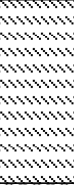








### BORELOG

Borehole - P43

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark				
								N1	N2	N3										
Machine Drilling	Not Used	150 mm.	5.50 M	0.00	1.50		Clay of High Plasticity	6	7	8	15		0.00							
				1.00																
					1.50		Clay of Medium Plasticity	50/10cm	-	-	R		1.50							
				2.00																
				3.00																
					1.00		Completely Weathered Rock Recovered in Granular Form						4.00							
				4.00																
					2.00		Highly Weathered Rock of Very Weak in Strength						5.00	15.00	NIL					
				5.00																
				6.00																
					2.00		Highly Weathered Rock of Weak in Strength						7.00	25.00	10.00					
				7.00																
				8.00																
					2.00		Highly Weathered Rock of Moderately Weak in Strength						9.00	35.00	19.00					
				9.00																
				10.00																








### BORELOG

Borehole - P43

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark			
								N1	N2	N3									
Machine Drilling	Not Used	150 mm.	5.50 M		2.00		Highly Weathered Rock of Moderately Weak in Strength												
				11.00												11.00	38.00	20.00	
				12.00												12.00	40.00	22.00	
					3.00		Highly Weathered Rock of Moderately Strong in Strength									13.00	13.00	45.00	25.00
				14.00												14.00	42.00	23.00	
				15.00												15.00	60.00	39.00	
					4.00		Moderately Weathered Rock of Moderately Strong in Strength									16.00	16.00	65.00	45.00
				17.00												17.00	69.00	51.00	
				18.00												18.00	75.00	60.00	
				19.00															

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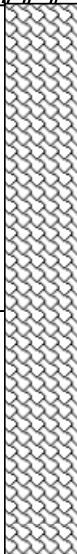







## BORELOG

Borehole - P44

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	5.80 M	0.00	1.50		Clay of High Plasticity	13	18	22	40		0.00			
				1.00												
					2.50		Completely Weathered Rock Recovered in Granular Form									
				2.00												
													3.00			
				3.00												
													4.00	16.00	NIL	
				4.00	2.00		Highly Weathered Rock of Very Weak in Strength						4.00			
													5.00	18.00	NIL	
				5.00												
													6.00	21.00	NIL	
				6.00	2.00		Highly Weathered Rock of Weak in Strength						6.00			
													7.00	25.00	7.00	
				7.00												
													8.00	30.00	10.00	
				8.00	2.00		Highly Weathered Rock of Moderately Weak in Strength						8.00			
													9.00	38.00	15.00	
				9.00												
													10.00	45.00	20.00	
				10.00												








## BORELOG

Borehole - P44

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark		
								N1	N2	N3								
Machine Drilling	Not Used	150 mm.	5.80 M	11.00	2.00		Highly Weathered Rock of Moderately Weak in Strength					11.00		49.00	24.00			
				12.00			Highly Weathered Rock of Moderately Strong in Strength					12.00		40.00	22.00			
				13.00	3.00		Highly Weathered Rock of Moderately Strong in Strength					13.00		45.00	25.00			
				14.00								14.00		48.00	23.00			
				15.00								15.00		65.00	42.00			
				16.00	3.00		Moderately Weathered Rock of Moderately Strong in Strength					16.00		65.00	45.00			
				17.00								17.00		70.00	55.00			
				18.00								18.00		90.00	80.00			
				19.00	1.00		Slightly Weathered Rock of Moderately Strong in Strength											

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## BORELOG

Borehole - P45

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark				
								N1	N2	N3										
Machine Drilling	Not Used	150 mm.	5.70 M	0.00	3.00		Clay of High Plasticity	5	7	9	16		0.00							
				1.00																
				2.00																
				3.00	1.00		Completely Weathered Rock Recovered in Residual Form	9	10	13	23	3.00								
													4.00	17.00	NIL					
				5.00									2.00		Highly Weathered Rock of Very Weak in Strength			5.00	20.00	NIL
				6.00														6.00	22.00	NIL
				7.00													3.00		Highly Weathered Rock of Weak in Strength	
				8.00										8.00	30.00					10.00
				9.00		9.00	38.00	15.00												
					1.00		Highly Weathered Rock of Moderately Weak in Strength		10.00	45.00	20.00									
				10.00																








## BORELOG

Borehole - P45

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark			
								N1	N2	N3									
Machine Drilling	Not Used	150 mm.	5.70 M		2.00		Highly Weathered Rock of Moderately Weak in Strength												
				11.00												11.00	45.00	22.00	
				12.00												12.00	42.00	22.00	
					3.00		Highly Weathered Rock of Moderately Strong in Strength									13.00	13.00	45.00	26.00
				14.00												14.00	48.00	28.00	
				15.00												15.00	65.00	45.00	
					4.00		Moderately Weathered Rock of Moderately Strong in Strength									16.00	16.00	69.00	47.00
				17.00												17.00	72.00	58.00	
				18.00												18.00	85.00	71.00	
				19.00															

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### BORELOG

Borehole - P46

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	5.75 M	0.00	3.00		Clay of High Plasticity	5	6	8	14		0.00			
				1.00									1.50			
				2.00												
				3.00									3.00			
				4.00	3.00		Completely Weathered Rock Recovered in Residual Form						4.00	16.00	NIL	
				5.00									5.00	18.00	NIL	
				6.00									6.00	19.00	NIL	
				7.00	3.00		Highly Weathered Rock of Weak in Strength						7.00	22.00	9.00	
				8.00									8.00	28.00	13.00	
				9.00	1.00		Highly Weathered Rock of Moderately Weak in Strength						9.00	35.00	17.00	
				10.00									10.00	39.00	22.00	







## BORELOG

Borehole - P46

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	5.75 M	11.00	3.00		Highly Weathered Rock of Moderately Weak in Strength					11.00		44.00	25.00	
				12.00								12.00		48.00	26.00	
				13.00								13.00		55.00	24.00	
				14.00	2.00		Highly Weathered Rock of Moderately Strong in Strength					14.00		48.00	22.00	
				15.00								15.00		58.00	35.00	
				16.00	4.00		Moderately Weathered Rock of Moderately Strong in Strength					16.00		65.00	44.00	
				17.00								17.00		72.00	54.00	
				18.00								18.00		75.00	65.00	
				19.00												

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## BORELOG

Borehole - P47

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	5.60 M	0.00	2.00		Clay of High Plasticity	5	6	8	14	0.00				
				1.00												
				2.00	1.00		Completely Weathered Rock Recovered in Residual Form					1.50				
				3.00												
				4.00	2.00		Completely Weathered Rock Recovered in Granular Pieces					3.00				
				5.00												
				6.00	3.00		Highly Weathered Rock of Weak in Strength					4.00				
				7.00												
				8.00	1.00		Highly Weathered Rock of Moderately Weak in Strength					5.00				
				9.00												
10.00																







## BORELOG

Borehole - P47

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	5.60 M	11.00	3.00		Highly Weathered Rock of Moderately Weak in Strength					11.00		44.00	23.00	
				12.00								12.00		45.00	25.00	
				13.00								13.00		51.00	28.00	
				14.00	2.00		Highly Weathered Rock of Moderately Strong in Strength					14.00		45.00	25.00	
				15.00								15.00		58.00	38.00	
				16.00	4.00		Moderately Weathered Rock of Moderately Strong in Strength					16.00		64.00	42.00	
				17.00								17.00		70.00	49.00	
				18.00								18.00		75.00	52.00	
				19.00												

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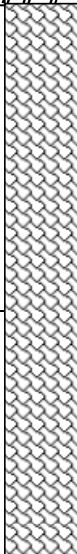







### BORELOG

Borehole - P48

Depth of Bore : 19.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark					
								N1	N2	N3											
Machine Drilling	Not Used	150 mm.	5.90 M	0.00	1.50		Clay of High Plasticity	13	18	22	40		0.00								
				1.00																	
					2.50		Completely Weathered Rock Recovered in Granular Form						1.50								
				2.00																	
													3.00								
				3.00																	
				4.00									4.00	16.00	NIL						
					2.00		Highly Weathered Rock of Very Weak in Strength						5.00	18.00	NIL						
				5.00									6.00	21.00	NIL						
				6.00																	
					2.00		Highly Weathered Rock of Weak in Strength						7.00	25.00	7.00						
				7.00									8.00	30.00	10.00						
				8.00																	
					2.00		Highly Weathered Rock of Moderately Weak in Strength						9.00	38.00	15.00						
				9.00																	
				10.00									10.00	45.00	20.00						








## BORELOG

Borehole - P48

Depth of Bore : 19.00 Mtr



Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark					
								N1	N2	N3											
Machine Drilling	Not Used	150 mm.	5.90 M		2.00		Highly Weathered Rock of Moderately Weak in Strength														
				11.00													11.00	49.00	24.00		
				12.00													12.00	40.00	22.00		
					3.00		Highly Weathered Rock of Moderately Strong in Strength														
				13.00													13.00	45.00	25.00		
				14.00													14.00	48.00	23.00		
				15.00													15.00	65.00	42.00		
					3.00		Moderately Weathered Rock of Moderately Strong in Strength														
				16.00													16.00	65.00	45.00		
				17.00													17.00	70.00	55.00		
				18.00													18.00	78.00	60.00		
				19.00																	

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BORELOG																
Borehole - P49							Depth of Bore : 26.00 Mtr									
Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	--	0.00	3.00		Clay of high Plasticity	10	15	18	33		0.00			
				1.00												
													1.50			
							>50					3.00				
				2.00												
				3.00												
					1.00		Residual Soil					4.00	12.00	NIL		
				4.00												
					3.00						Highly weathered factured rock of weak in strength	5.00	14.00	NIL		
				5.00												
						6.00	18.00					NIL				
				6.00												
							Highly weathered factured rock of moderately weak in strength				7.00	21.00	NIL			
				7.00												
	2.00		8.00	19.00	NIL											
8.00																
9.00				22.00	NIL											





### BORELOG

Borehole - P49

Depth of Bore : 26.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	-	10.00	4.00		Highly weathered rock of moderately weak in strength					10.00		24.00	NIL	
				11.00								11.00		25.00	NIL	
				12.00								12.00		25.00	NIL	
				13.00								13.00		23.00	NIL	
				14.00	4.00		Highly weathered rock of moderately strong in strength					14.00		20.00	NIL	
				15.00								15.00		28.00	NIL	
				16.00								16.00		40.00	15.00	
				17.00								17.00		45.00	27.00	
				18.00	3.50		Moderately weathered rock of moderately strong in strength					18.00		52.00	35.00	
				19.00								19.00		63.00	32.00	
				20.00								20.00		69.00	40.00	









## BORELOG

Borehole - P49

Depth of Bore : 26.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark						
								N1	N2	N3												
Machine Drilling	Not Used	150 mm.	-	21.00	2.50		Moderately weathered rock of moderately strong in strength					21.00		74.00	42.00							
												22.00		22.00	78.00		46.00					
												23.00		23.00	82.00		52.00					
					3.00		Slightly weathered rock of moderately strong in strength					24.00			85.00		58.00					
												25.00		25.00			89.00	65.00				
				26.00																		

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## BORELOG

Borehole - P50

Depth of Bore : 25.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	--	0.00	3.00		Clay of high Plasticity	5	7	10	17		0.00			
				1.00												
													1.50			
				2.00	3.00											
													3.00			
				3.00	1.00		Residual Soil				>50					
													4.00			
				4.00	5.00		Highly weathered factured rock of weak in strength							15.00	NIL	
													5.00			
				5.00												
													6.00			
				6.00												
													7.00			
				7.00												
													8.00			
				8.00												
													9.00			
				9.00												
													25.00		NIL	

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## BORELOG

Borehole - P50

Depth of Bore : 25.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	-	10.00	4.00		Highly weathered rock of moderately weak in strength					10.00		26.00	NIL	
				11.00								11.00		24.00	NIL	
				12.00								12.00		23.00	NIL	
				13.00								13.00		26.00	NIL	
				14.00	7.00		Highly weathered rock of moderately strong in strength					14.00		29.00	NIL	
				15.00								15.00		36.00	20.00	
				16.00								16.00		42.00	25.00	
				17.00								17.00		48.00	28.00	
				18.00								18.00		53.00	32.00	
				19.00								19.00		58.00	36.00	
				20.00								20.00		60.00	39.00	

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## BORELOG

Borehole - P50

Depth of Bore : 25.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	-	21.00	5.00		Moderately weathered rock of moderately strong in strength					21.00		62.00	40.00	
				22.00								22.00		66.00	45.00	
				23.00								23.00		72.00	50.00	
				24.00								24.00		78.00	55.00	
				25.00												

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BORELOG																
Borehole - P51								Depth of Bore : 26.00 Mtr								
Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)		VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling				0.00	3.00		Clay of high Plasticity	7	8	9	17	>50	0.00			
				1.00												
				2.00												
				3.00												
					1.00		Residual Soil									
4.00																
5.00																
6.00																
7.00																
	2.00		Highly weathered fractured rock of moderately weak in strength													
8.00																
9.00																





### BORELOG

Borehole - P51

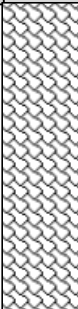

Depth of Bore : 26.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	-	10.00	4.00		Highly weathered rock of moderately weak in strength					10.00		24.00	NIL	
				11.00								11.00		23.00	NIL	
				12.00								12.00		20.00	NIL	
				13.00								13.00		23.00	NIL	
				14.00	4.00		Highly weathered rock of moderately strong in strength					14.00		25.00	NIL	
				15.00								15.00		27.00	NIL	
				16.00								16.00		34.00	20.00	
				17.00								17.00		41.00	28.00	
				18.00	3.50		Moderately weathered rock of moderately strong in strength					18.00		46.00	32.00	
				19.00								19.00		52.00	36.00	
				20.00								20.00		60.00	41.00	







BORELOG																				
Borehole - P51								Depth of Bore : 26.00 Mtr												
Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark				
								N1	N2	N3										
Machine Drilling	Not Used	150 mm.	-	21.00	2.50		Moderately weathered rock of moderately strong in strength					21.00		68.00	45.00					
														73.00	48.00					
				22.00								22.00			73.00		48.00			
					3.00		Slightly weathered rock of moderately strong in strength					23.00		75.00	53.00					
				23.00								23.00		75.00	53.00					
												24.00		80.00	55.00					
				24.00								24.00		80.00	55.00					
												25.00		83.00	62.00					
				25.00								25.00		83.00	62.00					
				26.00																

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## BORELOG

Borehole - P52

Depth of Bore : 24.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	--	0.00	3.00		Clay of high Plasticity	5	6	8	14		0.00			
				1.00									1.50			
				2.00												
				3.00	3.00		Poorly graded silty sand	10	12	18	30		3.00			
				4.00												
				5.00									4.50			
				6.00	2.00		Completely weathered rock				>50		6.00			
				7.00												
				8.00									7.50			
				9.00	1.00		Highly weathered rock of weak in strength				>50	8.00		10.00	NIL	
												9.00		13.00	NIL	

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## BORELOG

Borehole - P52

Depth of Bore : 24.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	-	10.00	3.00		Highly weathered rock of weak in strength					10.00		15.00	NIL	
				11.00								11.00		16.00	NIL	
				12.00								12.00		18.00	NIL	
				13.00	5.00		Highly weathered rock of moderately weak in strength					13.00		19.00	NIL	
				14.00								14.00		21.00	NIL	
				15.00								15.00		22.00	NIL	
				16.00								16.00		24.00	NIL	
				17.00								17.00		36.00	25.00	
				18.00	3.00		Highly weathered rock of moderately strong in strength					18.00		44.00	32.00	
				19.00								19.00		46.00	35.00	
				20.00												







## BORELOG

Borehole - P52

Depth of Bore : 24.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	-	21.00	4.00		Moderately weathered rock of moderately strong in strength					21.00		56.00	43.00	
				22.00								22.00		63.00	48.00	
				23.00								23.00		68.00	56.00	
				24.00												

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### BORELOG

Borehole - P53

Depth of Bore : 25.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	--	0.00	3.00		Clay of high Plasticity	5	6	8	14		0.00			
				1.00												
													1.50			
				2.00												
													3.00			
				3.00	3.00		Residual Soil mixed with boulders	9	12	15	27					
				4.00												
													4.50			
				5.00												
													6.00			
				6.00	2.00		Completely weathered rock				>50					
				7.00												
													7.50			
				8.00	1.00		Highly weathered rock of weak in strength				>50					
													8.00			
				9.00										11.00	NIL	
														13.00	NIL	

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## BORELOG

Borehole - P53

Depth of Bore : 25.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	-	10.00	3.00		Highly weathered rock of weak in strength					10.00		16.00	NIL	
				11.00								11.00		14.00	NIL	
				12.00								12.00		15.00	NIL	
				13.00	5.00		Highly weathered rock of moderately weak in strength					13.00		18.00	NIL	
				14.00								14.00		21.00	NIL	
				15.00								15.00		24.00	NIL	
				16.00								16.00		29.00	15.00	
				17.00								17.00		38.00	24.00	
				18.00	3.00		Highly weathered rock of moderately strong in strength					18.00		45.00	30.00	
				19.00								19.00		48.00	36.00	
				20.00								20.00		56.00	40.00	

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## BORELOG

Borehole - P53

Depth of Bore : 25.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	-	21.00	5.00		Moderately weathered rock of moderately strong in strength					21.00		62.00	44.00	
				22.00								22.00		66.00	48.00	
				23.00								23.00		72.00	53.00	
				24.00								24.00		78.00	57.00	
				25.00												

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### BORELOG

Borehole - P54

Depth of Bore : 24.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	--	0.00	3.00		Clay of high Plasticity	5	6	6	12		0.00			
				1.00									1.50			
				2.00												
				3.00	3.00		Poorly graded silty sand	7	9	12	21		3.00			
				4.00									4.50			
				5.00												
				6.00	2.00		Completely weathered rock				>50		6.00			
				7.00									7.50			
				8.00									8.00			
				9.00	1.00		Highly weathered rock of weak in strength						14.00		NIL	
													16.00			







## BORELOG

Borehole - P54

Depth of Bore : 24.00 Mtr


Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	-	10.00	3.00		Highly weathered rock of weak in strength					10.00		17.00	NIL	
				11.00								11.00		14.00	NIL	
				12.00								12.00		19.00	NIL	
				13.00	5.00		Highly weathered rock of moderately weak in strength					13.00		23.00	NIL	
				14.00								14.00		25.00	NIL	
				15.00								15.00		32.00	12.00	
				16.00								16.00		36.00	20.00	
				17.00								17.00		45.00	26.00	
				18.00	3.00		Highly weathered rock of moderately strong in strength					18.00		49.00	33.00	
				19.00								19.00		54.00	38.00	
				20.00								20.00		58.00	45.00	

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BORELOG																
Borehole - P54								Depth of Bore : 24.00 Mtr								
Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	-	21.00	4.00		Moderately weathered rock of moderately strong in strength					21.00		65.00	48.00	
				22.00								22.00		69.00	54.00	
				23.00								23.00		75.00	60.00	
				24.00												

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## BORELOG

Borehole - P55

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	5.60 M	0.00									0.00			
				1.00	3.00		Clay of high Plasticity	5	6	9	15		1.50			
				2.00												
				3.00				7	10	11	21		3.00			
				4.00	1.00		Poorly graded silty sand					4.00		12.00	NIL	
				5.00								5.00		14.00	NIL	
				6.00	6.00		Highly weathered rock of Very weak in strength					6.00		17.00	NIL	
				7.00								7.00		15.00	NIL	
				8.00								8.00		19.00	NIL	
				9.00	1.00		Highly weathered rock of weak in strength					9.00		22.00	NIL	










### BORELOG

Borehole - P55

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark	
								N1	N2	N3							
Machine Drilling	Not Used	150 mm.	5.60 M		3.00		Highly weathered rock of weak in strength	46	65	85	150		18.00		NIL		
				10.00										25.00			
												11.00					NIL
												12.00			25.00		10.00
				13.00	4.00		Highly weathered rock of moderately weak in strength								25.00		NIL
				14.00								14.00			30.00		12.00
				15.00								15.00			35.00		15.00
				16.00								16.00			35.00		16.00
				17.00	4.00		Highly weathered rock of moderately strong in strength								41.00		20.00
				18.00													
				19.00										45.00	20.00		
				20.00										49.00	22.00		







## BORELOG

Borehole - P56

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	5.70 M	0.00	3.00		Clay of high Plasticity	5	6	7	13		0.00			
				1.00									1.50			
				2.00												
				3.00									3.00			
				4.00	3.00		Poorly graded silty sand	10	13	17	30		4.50			
				5.00												
				6.00									6.00			
				7.00									7.00			
				8.00	2.00		Highly weathered rock of Very weak in strength						8.00	15.00	NIL	
				9.00									9.00			
				1.00	1.00		Highly weathered rock of weak in strength						17.00	17.00	NIL	
				2.00									19.00			
				3.00									22.00			
				4.00												
				5.00												
				6.00												
				7.00												










### BORELOG

Borehole - P56

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	5.70 M	10.00	3.00		Highly weathered rock of weak in strength	47	60	78	138	10.00	16.00	25.00	NIL	
				11.00								11.00		22.00	NIL	
				12.00								12.00		25.00	10.00	
				13.00	5.00		Highly weathered rock of moderately weak in strength					13.00		25.00	NIL	
				14.00								14.00		30.00	12.00	
				15.00								15.00		35.00	15.00	
				16.00								16.00				
				17.00								17.00		41.00	20.00	
				18.00	3.00		Highly weathered rock of moderately strong in strength					18.00		40.00	19.00	
				19.00								19.00		45.00	20.00	
				20.00								20.00		49.00	22.00	







## BORELOG

Borehole - P57

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	5.50 M	0.00	3.00		Clay of high Plasticity	5	6	7	13		0.00			
				1.00									1.50			
				2.00												
				3.00									3.00			
				4.00	3.00		Poorly graded silty sand	10	13	17	30		4.50			
				5.00												
				6.00									6.00			
				7.00									7.00			
				8.00	1.00		Highly weathered rock of Very weak in strength						8.00	15.00	NIL	
				9.00									9.00			








### BORELOG

Borehole - P57

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	5.50 M		3.00		Highly weathered rock of weak in strength	48	61	75	136	10.00	18.00	17.00	NIL	
				10.00								11.00		18.00	NIL	
				11.00								12.00		20.00	NIL	
				12.00	5.00		Highly weathered rock of moderately weak in strength					13.00		25.00	NIL	
				13.00								14.00		29.00	NIL	
				14.00								15.00		35.00	15.00	
				15.00								16.00		37.00	16.00	
				16.00								17.00		39.00	19.00	
				17.00	3.00		Highly weathered rock of moderately strong in strength					18.00		48.00	25.00	
				18.00												
				19.00												
				20.00								55.00				





## BORELOG

Borehole - P58

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	5.50 M	0.00	3.00		Clay of high Plasticity	5	6	6	12		0.00			
				1.00												
				2.00												
				3.00	3.00		Poorly graded silty sand	7	9	12	21		3.00			
				4.00												
				5.00												
				6.00	3.00		Highly weathered rock of weak in strength	10	15	19	34		4.50			
				7.00												
				8.00												
				9.00												










### BORELOG

Borehole - P58

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark	
								N1	N2	N3							
Machine Drilling	Not Used	150 mm.	5.50 M		3.00		Highly weathered rock of weak in strength	51	64	78	142	10.00	17.00	17.00	NIL		
												11.00		15.00	NIL		
												12.00		19.00	NIL		
					5.00							Highly weathered rock of moderately weak in strength		13.00	23.00		NIL
														14.00	27.00		NIL
														15.00	30.00		12.00
														16.00	35.00		15.00
														17.00			
					3.00							Highly weathered rock of moderately strong in strength		18.00	45.00		25.00
														19.00	50.00		28.00
														20.00	50.00		25.00







## BORELOG

Borehole - P59

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	5.90 M	0.00	1.50		Clay of High Plasticity	8	11	12	23		0.00			
				1.00												
					3.50		Completely Weathered Rock Recovered in Residual Form	14	17	19	36		1.50			
				2.00												
				3.00												
												4.00				
				5.00								5.00	19.00	NIL		
					2.00		Highly Weathered Rock of Very Weak in Strength									
				6.00								6.00	16.00	NIL		
				7.00								7.00	17.00	NIL		
					3.00		Highly Weathered Rock of Weak in Strength									
				8.00								8.00	21.00	NIL		
				9.00								9.00	24.00	NIL		
				10.00								10.00	25.00	9.00		

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## BORELOG

Borehole - P59

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	5.90 M	11.00	7.00		Highly Weathered Rock of Weak in Strength					11.00		28.00	11.00	
				12.00								12.00		33.00	15.00	
				13.00								13.00		30.00	10.00	
				14.00								14.00		33.00	12.00	
				15.00								15.00		35.00	15.00	
				16.00								16.00		40.00	21.00	
				17.00								17.00		38.00	18.00	
				18.00	3.00		Highly Weathered Rock of Moderately Weak in Strength	48	61	78	139	18.00				
				19.00				19.00	48.00	17.00						
				20.00												

S. Naik

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## BORELOG

Borehole - P60

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	5.85 M	0.00	1.50		Clay of High Plasticity	9	13	15	28		0.00			
				1.00												
					2.00		Completely Weathered Rock Recovered in Residual Form	12	17	22	39		1.50			
				2.00												
				3.00									3.00			
				4.00	1.00		Completely Weathered Rock Recovered in Granular Pieces					4.00		17.00	NIL	
				5.00								5.00				
				6.00								6.00				
				7.00	2.00		Highly Weathered Rock of Very Weak in Strength					7.00		15.00	NIL	
				8.00								8.00				
					3.00		Highly Weathered Rock of Weak in Strength					9.00		22.00	NIL	
				9.00												
				10.00								10.00				
													22.00		NIL	







## BORELOG

Borehole - P60

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	5.85 M	11.00	8.00		Highly Weathered Rock of Weak in Strength					11.00		25.00	10.00	
				12.00								12.00		28.00	NIL	
				13.00								13.00		31.00	12.00	
				14.00								14.00		30.00	NIL	
				15.00								15.00		37.00	14.00	
				16.00								16.00		39.00	17.00	
				17.00				45	60	73	133		17.00			
				18.00								18.00		40.00	18.00	
				19.00	2.00		Highly Weathered Rock of Moderately Weak in Strength					19.00		45.00	21.00	
				20.00												







## BORELOG

Borehole - P61

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	5.80 M	0.00	2.00		Clay of High Plasticity	10	14	20	34		0.00			
				1.00												
				2.00	2.00		Completely Weathered Rock Recovered in Residual Form	15	18	24	42		2.00			
				3.00												
				4.00	1.00		Completely Weathered Rock Recovered in Granular Pieces						4.00			
				5.00									5.00			
				6.00	2.00		Highly Weathered Rock of Very Weak in Strength						6.00			
				7.00									7.00			
				8.00	3.00		Highly Weathered Rock of Weak in Strength						8.00			
				9.00									9.00			
				10.00									10.00	25.00	8.00	







## BORELOG

Borehole - P61

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	5.80 M	11.00	8.00		Highly Weathered Rock of Weak in Strength					11.00		25.00	10.00	
				12.00								12.00		28.00	NIL	
				13.00								13.00		31.00	12.00	
				14.00								14.00		30.00	10.00	
				15.00								15.00		35.00	15.00	
				16.00				44	56	70	126		16.00			
				17.00								17.00		40.00	21.00	
				18.00								18.00		39.00	15.00	
				19.00	2.00		Highly Weathered Rock of Moderately Weak in Strength					19.00		42.00	17.00	
				20.00												

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## BORELOG

Borehole - P62

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	5.50 M	0.00	2.00		Clay of High Plasticity	8	9	11	20		0.00			
				1.00												
				2.00	2.00		Completely Weathered Rock Recovered in Residual Form	18	50/5cm	-	R		1.50			
				3.00												
				4.00	1.00		Completely Weathered Rock Recovered in Granular Pieces						4.00			
				5.00									5.00			
				6.00	2.00		Highly Weathered Rock of Very Weak in Strength						6.00			
				7.00									7.00			
				8.00	3.00		Highly Weathered Rock of Weak in Strength						8.00			
				9.00									9.00			
				10.00									10.00		22.00	NIL








## BORELOG

Borehole - P62

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark			
								N1	N2	N3									
Machine Drilling	Not Used	150 mm.	5.50 M		6.00		Highly Weathered Rock of Weak in Strength												
				11.00													11.00	27.00	NIL
				12.00															
				13.00															
				14.00															
				15.00															
				16.00															
				17.00															
				18.00	4.00		Highly Weathered Rock of Moderately Weak in Strength	43	55	68	123	18.00							
				19.00															
				20.00															

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### BORELOG

Borehole - P63

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	6.00 M	0.00	2.00		Clay of High Plasticity	7	11	13	24		0.00			
				1.00												
				2.00								1.50				
					2.00		Completely Weathered Rock Recovered in Residual Form	25	50/10cm	-	R		3.00			
				3.00												
				4.00								4.00				
					2.00		Completely Weathered Rock Recovered in Granular Pieces						5.00			
				5.00												
				6.00								6.00	17.00			
					4.00		Highly Weathered Rock of Very Weak in Strength						7.00			
				7.00												
				8.00								8.00	24.00			
				9.00								9.00	22.00			
				10.00								10.00	30.00			

S. Naik

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### BORELOG

Borehole - P63

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark	
								N1	N2	N3							
Machine Drilling	Not Used	150 mm.	6.00 M	11.00	5.00		Highly Weathered Rock of Weak in Strength				139	11.00		35.00	NIL		
				12.00								12.00		36.00			12.00
				13.00								13.00		40.00			15.00
				14.00								14.00		38.00			15.00
				15.00								15.00		42.00			18.00
				16.00	5.00		Highly Weathered Rock of Moderately Weak in Strength	50	67	72	16.00						
				17.00				17.00	40.00	15.00							
				18.00				18.00	38.00	17.00							
				19.00				19.00	45.00	17.00							
				20.00													

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BORELOG																							
Borehole - P64							Depth of Bore : 20.00 Mtr																
Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark							
								N1	N2	N3													
Machine Drilling	Not Used	150 mm.	6.00 M	0.00	2.00		Clay of High Plasticity	12	15	18	33		0.00										
				1.00																			
				2.00																			
					2.00		Completely Weathered Rock Recovered in Residual Form						25				50/10cm	-	R	3.00			
				3.00																			
				4.00																			
				5.00	2.00		Completely Weathered Rock Recovered in Granular Pieces																
				6.00																			
				7.00	4.00		Highly Weathered Rock of Very Weak in Strength																
				8.00																			
9.00																							
10.00																							








## BORELOG

Borehole - P64

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark						
								N1	N2	N3												
Machine Drilling	Not Used	150 mm.	6.00 M		5.00		Highly Weathered Rock of Weak in Strength	51	62	75	137											
				11.00																		
				12.00																		
				13.00																		
				14.00																		
				15.00																		
				16.00	5.00		Highly Weathered Rock of Moderately Weak in Strength															
				17.00																		
				18.00																		
				19.00																		
20.00																						

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## BORELOG

Borehole - P65

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark	
								N1	N2	N3							
Machine Drilling	Not Used	150 mm.	5.80 M	0.00	2.00		Clay of High Plasticity	7	9	12	21		0.00				
				1.00													
				2.00									1.50				
					2.00		Completely Weathered Rock Recovered in Granular Pieces	13	17	22	39			3.00			
				3.00													
				4.00									4.00				
					3.00		Highly Weathered Rock of Very Weak in Strength										
				5.00									5.00				
				6.00									6.00		17.00	NIL	
				7.00									7.00		21.00	NIL	
					3.00		Highly Weathered Rock of Weak in Strength										
				8.00									8.00		24.00	NIL	
				9.00									9.00		22.00	NIL	
				10.00									10.00		27.00	NIL	







### BORELOG

Borehole - P65

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	5.80 M	11.00	4.00		Highly Weathered Rock of Weak in Strength					11.00		32.00		NIL
				12.00								12.00		35.00	12.00	
				13.00								13.00		38.00		NIL
				14.00								14.00		45.00	15.00	
				15.00	2.00		Moderately Weathered Rock of Moderately Weak in Strength					15.00		40.00	15.00	
				16.00								16.00		42.00	18.00	
				17.00	2.00		Highly Weathered Rock of Weak in Strength	45	58	75	133		17.00			
				18.00								18.00		46.00	15.00	
				19.00	2.00		Highly Weathered Rock of Moderately Weak in Strength					19.00		45.00	18.00	
				20.00												

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







## BORELOG

Borehole - P66

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark		
								N1	N2	N3								
Machine Drilling	Not Used	150 mm.	6.00 M	0.00	1.50		Clay of High Plasticity	50/6cm	-	-	R		0.00					
				1.00														
					0.50		Clay of Medium Plasticity						1.50					
				2.00									2.00					
					2.00		Completely Weathered Rock Recovered in Residual Form						2.00					
				3.00									3.00					
				4.00									4.00					
					2.00		Completely Weathered Rock Recovered in Granular Pieces						5.00					
				5.00									6.00					
				6.00									6.00					
					4.00		Highly Weathered Rock of Very Weak in Strength						15.00				NIL	
				7.00									7.00				18.00	NIL
													8.00				25.00	NIL
				8.00									9.00				18.00	NIL
				9.00														
10.00																		








### BORELOG

Borehole - P66

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
								N1	N2	N3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Machine Drilling	Not Used	150 mm.	6.00 M		5.00		Highly Weathered Rock of Weak in Strength	44	55	72	127	18.00	30.00	15.00	17.00	22.00																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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## BORELOG

Borehole - P67

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark					
								N1	N2	N3											
Machine Drilling	Not Used	150 mm.	6.20 M	0.00	3.00		Clay of High Plasticity	12	22	25	47		0.00								
				1.00														1.50			
				2.00																	
				3.00														3.00			
													1.00					Completely Weathered Rock Recovered in Residual Form	50/8cm	-	-
				4.00		4.00															
					1.00		Completely Weathered Rock Recovered in Granular Pieces	5.00	10.00	NIL											
				5.00																	
				6.00					6.00	14.00	NIL										
					5.00		Highly Weathered Rock of Very Weak in Strength	7.00	18.00	5.00											
				8.00					8.00	20.00	NIL										
				9.00					9.00	25.00	NIL										
				10.00																	








### BORELOG

Borehole - P67

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	6.20 M		5.00		Highly Weathered Rock of Weak in Strength	38	55	69	124	17.00	11.00	25.00	NIL	
													12.00	27.00	NIL	
													13.00	8.00	NIL	
													14.00	28.00	7.00	
													15.00	51.00	25.00	
					1.00		Moderately Weathered Rock of Moderately Weak in Strength						16.00	45.00	15.00	
					2.00								Highly Weathered Rock of Weak in Strength	18.00	12.00	
					2.00		Highly Weathered Rock of Moderately Weak in Strength							19.00	14.00	
					20.00											







## BORELOG

Borehole - P68

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	5.80 M	0.00	1.50		Clay of High Plasticity	10	15	20	35		0.00			
				1.00												
					2.50		Completely Weathered Rock Recovered in Residual Form	17	23	40	63		1.50			
				2.00												
				3.00									3.00			
				4.00												
					6.00		Highly Weathered Rock of Very Weak in Strength						4.00	20.00	NIL	
				5.00									5.00	12.00	5.00	
				6.00									6.00	27.00	NIL	
				7.00									7.00	30.00	NIL	
				8.00									8.00	15.00	NIL	
				9.00									9.00	11.00	NIL	
				10.00									10.00	18.00	8.00	








### BORELOG

Borehole - P68

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	5.80 M		4.00		Highly Weathered Rock of Weak in Strength	45	60	78	138					
				11.00									11.00	14.00	NIL	
				12.00									12.00	15.00	NIL	
				13.00									13.00	13.00	NIL	
				14.00			14.00					55.00	22.00			
				15.00	2.00		Moderately Weathered Rock of Moderately Weak in Strength					15.00	52.00	25.00		
				16.00									16.00			
				17.00	2.00		Highly Weathered Rock of Weak in Strength					17.00	35.00	NIL		
				18.00									18.00	22.00	NIL	
				19.00	2.00		Highly Weathered Rock of Moderately Weak in Strength					19.00	17.00	NIL		
				20.00												

S. Naveen

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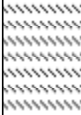






### BORELOG

Borehole - P69

Depth of Bore : 20.00 Mtr

Machine Drilling																					
Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark					
								N1	N2	N3											
	Not Used	150 mm.	6.10 M	0.00	3.00		Clay of High Plasticity	18	22	35	57		0.00								
				1.00																	
				2.00									1.50								
				3.00	1.00		Clay of Medium Plasticity	50/7cm	-	-	R		3.00								
				4.00									4.00								
					2.00		Completely Weathered Rock Recovered in Granular Pieces						5.00								
				5.00																	
													6.00	14.00	NIL						
				6.00	4.00		Highly Weathered Rock of Very Weak in Strength														
													7.00	18.00	NIL						
				7.00																	
													8.00	20.00	NIL						
				8.00																	
													9.00	15.00	NIL						
				9.00																	
													10.00	33.00	NIL						
				10.00																	








## BORELOG

Borehole - P69

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	6.10 M		6.00		Highly Weathered Rock of Weak in Strength	51	65	81	146					
				11.00									11.00		32.00	NIL
				12.00									12.00		34.00	15.00
				13.00									13.00		37.00	NIL
				14.00									14.00		32.00	NIL
				15.00			15.00		40.00	14.00						
				16.00	4.00		Highly Weathered Rock of Moderately Weak in Strength									
				17.00					17.00		75.00	15.00				
				18.00					18.00		43.00	NIL				
				19.00					19.00		44.00	NIL				
20.00																

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### BORELOG

Borehole - P70

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G. W. L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark												
								N1	N2	N3																		
Machine Drilling	Not Used	150 mm.	6.30 M	0.00	1.50		Clay of Medium Plasticity	15	22	25	47		0.00															
				1.00														1.50										
					2.50		Completely Weathered Rock Recovered in Granular Form						2.00															
					4.00		Highly Weathered Rock of Very Weak in Strength						4.00															
					2.00		Highly Weathered Rock of Weak in Strength						8.00															







### BORELOG

Borehole - P70

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	6.30 M	11.00	2.00		Highly Weathered Rock of Weak in Strength					11.00		12.00	NIL	
				12.00								12.00		55.00	37.00	
				13.00								13.00		65.00	40.00	
				14.00	4.00		Moderately Weathered Rock of Moderately Weak in Strength					14.00		60.00	36.00	
				15.00								15.00		70.00	54.00	
				16.00								16.00		56.00	10.00	
				17.00				55	68	85	153		17.00			
				18.00	4.00		Highly Weathered Rock of Weak in Strength					18.00		40.00	NIL	
				19.00								19.00		37.00	NIL	
				20.00												

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Depth of Bore : 20.00 Mtr

## Machine Drilling






## BORELOG

Borehole - P71

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark		
								N1	N2	N3								
Machine Drilling	Not Used	150 mm.	4.9 M		5.00		Highly Weathered Rock of Weak in Strength	61	75	81	156	18.00						
				11.00												11.00	30.00	NIL
				12.00												12.00	27.00	NIL
				13.00												13.00	40.00	15.00
				14.00												14.00	35.00	NIL
				15.00												15.00	42.00	12.00
				16.00												16.00	34.00	10.00
				17.00												17.00	25.00	NIL
				18.00	18.00		39.00									20.00		
				19.00														
				20.00														

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## BORELOG

Borehole - P72

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G. W. L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark										
								N1	N2	N3																
Machine Drilling	Not Used	150 mm.	6.30 M	0.00	3.00		Clay of High Plasticity	10	15	27	42		0.00													
				1.00														1.50								
				2.00																						
				3.00														3.00								
					1.00		Completely Weathered Rock Recovered in Residual Form	23	50/7 cm	-	R	4.00														
				4.00																						
					1.00		Completely Weathered Rock Recovered in Granular Pieces					5.00										12.00	NIL			
				5.00																						
					5.00		Highly Weathered Rock of Very Weak in Strength					6.00										15.00	7.00			
				6.00																						
																								7.00	20.00	11.00
				7.00																						
																								8.00	30.00	NIL
				8.00																						
																								9.00	23.00	NIL
				9.00																						
																								10.00	17.00	NIL
				10.00																						








## BORELOG

Borehole - P72

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark			
								N1	N2	N3									
Machine Drilling	Not Used	150 mm.	6.30 M		5.00		Highly Weathered Rock of Weak in Strength	40	65	78	143		18.00						
				11.00													11.00	30.00	NIL
				12.00													12.00	35.00	NIL
				13.00													13.00	13.00	8.00
				14.00													14.00	27.00	NIL
				15.00	1.00		Moderately Weathered Rock of Moderately Weak in Strength										15.00	55.00	36.00
				16.00													16.00	43.00	14.00
				17.00	2.00		Highly Weathered Rock of Weak in Strength										17.00	38.00	9.00
				18.00															
				19.00	2.00		Highly Weathered Rock of Moderately Weak in Strength										19.00	28.00	11.00
				20.00															










### BORELOG

Borehole - P73

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G. W. L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark										
								N1	N2	N3																
Machine Drilling	Not Used	150 mm.	5.50 M	0.00	3.00		Clay of High Plasticity	10	14	25	39		0.00													
				1.00																						1.50
				2.00																						
				3.00																						
				4.00	2.00		Completely Weathered Rock Recovered in Granular Pieces	50/8 cm	-	-	R															
				5.00																						
				6.00	5.00		Highly Weathered Rock of Very Weak in Strength																			
				7.00																						
				8.00																						
				9.00																						
				10.00																						

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## BORELOG

Borehole - P73

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark			
								N1	N2	N3									
Machine Drilling	Not Used	150 mm.	5.50 M		5.00		Highly Weathered Rock of Weak in Strength	45	64	70	134								
				11.00									11.00		12.00	10.00			
				12.00									12.00		33.00	NIL			
				13.00									13.00		25.00	NIL			
				14.00			14.00		34.00	NIL									
				15.00			15.00		40.00	16.00									
					1.00														
				16.00															
				17.00															
				18.00															
19.00																			
20.00																			

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### BORELOG

Borehole - P74

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G. W. L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	6.10 M	0.00	1.50		Clay of Medium Plasticity	50/7cm	-	-	R		0.00			
				1.00												
					2.50		Completely Weathered Rock Recovered in Granular Form									
				2.00												
				3.00												
				4.00												
					4.00		Highly Weathered Rock of Very Weak in Strength									
				5.00												
				6.00												
				7.00												
				8.00												
					2.00		Highly Weathered Rock of Weak in Strength									
				9.00												
				10.00												







### BORELOG

Borehole - P74

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	6.10 M	11.00	2.00		Highly Weathered Rock of Weak in Strength					11.00		13.00		NIL
				12.00								12.00		61.00		35.00
				13.00								13.00		58.00		37.00
				14.00	4.00		Moderately Weathered Rock of Moderately Weak in Strength					14.00		65.00		40.00
				15.00								15.00		48.00		33.00
				16.00								16.00		42.00		15.00
				17.00				35	60	72	132		17.00			
				18.00	4.00		Highly Weathered Rock of Weak in Strength					18.00		34.00		9.00
				19.00								19.00		37.00		12.00
				20.00												

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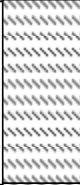






## BORELOG

Borehole - P75

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark					
								N1	N2	N3											
Machine Drilling	Not Used	150 mm.	5.70 M	0.00	1.50		Clay of High Plasticity	5	11	20	31		0.00								
				1.00																	
					1.50		Clay of Medium Plasticity	50/10 cm	-	-	R		1.50								
				2.00																	
				3.00									3.00								
					2.00		Completely Weathered Rock Recovered in Residual Form						4.00								
				4.00																	
				5.00									5.00				11.00	NIL			
					5.00		Highly Weathered Rock of Very Weak in Strength						6.00				8.00	NIL			
				6.00																	
				7.00									7.00	20.00	7.00						
				8.00									8.00	15.00	NIL						
				9.00									9.00	33.00	NIL						
				10.00									10.00	23.00	12.00						








## BORELOG

Borehole - P75

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark		
								N1	N2	N3								
Machine Drilling	Not Used	150 mm.	5.70 M		5.00		Highly Weathered Rock of Weak in Strength					11.00	14.00	NIL				
				11.00														
				12.00														
				13.00														
					5.00		Highly Weathered Rock of Weak in Strength				12.00	12.00	NIL					
				13.00														
				14.00														
				15.00														
					5.00		Highly Weathered Rock of Moderately Weak in Strength				16.00	34.00	10.00					
				16.00														
				17.00														
															5.00	Highly Weathered Rock of Moderately Weak in Strength		
18.00																		
19.00																		
	5.00	Highly Weathered Rock of Moderately Weak in Strength				20.00	20.00	NIL										
				20.00														

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## BORELOG

Borehole - P76

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark																																
								N1	N2	N3																																						
Machine Drilling	Not Used	150 mm.	5.90 M	0.00	1.50		Clay of High Plasticity	50/3cm	-	-	R		0.00																																			
				1.00																																												
					0.50		Clay of Medium Plasticity												R		1.50																											
				2.00																																												
					2.00		Completely Weathered Rock Recovered in Residual Form																				R		3.00																			
				3.00																																												
				4.00																																												
					2.00		Completely Weathered Rock Recovered in Granular Pieces																												R		5.00											
				5.00																																												
				6.00																																												
					4.00		Highly Weathered Rock of Very Weak in Strength																																				R		6.00		13.00	NIL
				7.00																																												
				8.00																																												
				9.00																																												
							R		10.00		35.00	NIL																																				







## BORELOG

Borehole - P76

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	5.90 M	11.00	2.00		Highly Weathered Rock of Very Weak in Strength					11.00		25.00	NIL	
				12.00								12.00		35.00	NIL	
				13.00								13.00		28.00	NIL	
				14.00								14.00		20.00	NIL	
				15.00	6.00		Highly Weathered Rock of Weak in Strength					15.00		40.00	11.00	
				16.00				33	57	76	133		16.00			
				17.00								17.00		42.00	10.00	
				18.00								18.00		57.00	36.00	
				19.00	2.00		Moderately Weathered Rock of Moderately Weak in Strength					19.00		55.00	34.00	
				20.00												

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### BORELOG

Borehole - P77

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	5.50 M	0.00	1.50		Clay of High Plasticity	12	17	24	41		0.00			
				1.00												
					2.50		Completely Weathered Rock Recovered in Residual Form	35	50/7 cm	-	R		1.50			
				2.00												
				3.00									3.00			
				4.00	6.00		Highly Weathered Rock of Very Weak in Strength						4.00	10.00	NIL	
				5.00									5.00	12.00	5.00	
				6.00									6.00	25.00	NIL	
				7.00									7.00	35.00	NIL	
				8.00									8.00	11.00	7.00	
				9.00									9.00	14.00	9.00	
				10.00									10.00	17.00	NIL	








## BORELOG

Borehole - P77

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	5.50 M		6.00		Highly Weathered Rock of Weak in Strength	48	62	82	144		16.00			
				11.00										11.00	14.00	NIL
				12.00										12.00	25.00	NIL
				13.00										13.00	10.00	NIL
				14.00										14.00	22.00	10.00
				15.00										15.00	25.00	8.00
				16.00	4.00		Highly Weathered Rock of Moderately Weak in Strength									
				17.00					17.00	34.00	15.00					
				18.00					18.00	40.00	12.00					
				19.00					19.00	44.00	5.00					
	20.00															

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### BORELOG

Borehole - P78

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark					
								N1	N2	N3											
Machine Driling	Not Used	150 mm.	6.25 M	0.00	3.00		Clay of High Plasticity	10	17	32	49		0.00								
				1.00																	
				2.00									1.50								
				3.00	2.00		Completely Weathered Rock Recovered in Residual Form	50/5 cm	-	-	R		3.00								
				4.00													4.00				
				5.00													5.00	20.00	12.00		
													5.00		Highly Weathered Rock of Very Weak in Strength						6.00
				6.00																	
					7.00	15.00	NIL														
				7.00																	
					8.00	22.00	10.00														
				8.00																	
					9.00	30.00	NIL														
				9.00																	
					10.00	16.00	NIL														
				10.00																	








### BORELOG

Borehole - P78

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	6.25 M		5.00		Highly Weathered Rock of Weak in Strength	59	72	85	157					
				11.00									11.00	30.00	NIL	
				12.00									12.00	24.00	12.00	
				13.00									13.00	10.00	NIL	
				14.00									14.00	22.00	10.00	
				15.00		15.00	55.00					34.00				
					1.00	Moderately Weathered Rock of Moderately Weak in Strength								16.00	43.00	14.00
				16.00												
					2.00	Highly Weathered Rock of Weak in Strength								17.00	38.00	12.00
				17.00												
				18.00												
					2.00	Highly Weathered Rock of Moderately Weak in Strength								19.00	25.00	NIL
				19.00												
				20.00												

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## BORELOG

Borehole - P79

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	5.80 M	0.00	1.50		Clay of High Plasticity	6	15	27	42		0.00			
				1.00												
					1.50		Clay of Medium Plasticity	32	50/6 cm	-	R		1.50			
				2.00												
				3.00									3.00			
					1.00		Completely Weathered Rock Recovered in Residual Form							20.00	11.00	
				4.00									4.00			
					4.00		Highly Weathered Rock of Very Weak in Strength							23.00	11.00	
				5.00									5.00			
				6.00									6.00			
				7.00									7.00			
				8.00									8.00			
					2.00		Highly Weathered Rock of Weak in Strength							17.00	NIL	
				9.00									9.00			
				10.00									10.00			







## BORELOG

Borehole - P79

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	5.80 M	11.00	4.00		Highly Weathered Rock of Weak in Strength					11.00		15.00		NIL
				12.00								12.00		25.00		10.00
				13.00								13.00		30.00		NIL
				14.00								14.00		60.00		37.00
				15.00	2.00		Moderately Weathered Rock of Moderately Weak in Strength					15.00		64.00		40.00
				16.00				59	65	77	142		16.00			
				17.00	4.00		Highly Weathered Rock of Moderately Weak in Strength					17.00		35.00		10.00
				18.00								18.00		38.00		8.00
				19.00								19.00		40.00		11.00
				20.00												

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### BORELOG

Borehole - P80

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark			
								N1	N2	N3									
Machine Drilling	Not Used	150 mm.	5.35M	0.00	1.50		Clay of High Plasticity	6	15	20	35		0.00						
				1.00															
					3.00		Clay of Medium Plasticity	12	22	25	47		1.50						
				2.00															
				3.00									3.00						
				4.00															
					1.50		Completely Weathered Rock Recovered in Residual Form	33	50/14 cm	-	R		4.50						
				5.00									5.00						
				6.00	4.00		Highly Weathered Rock of Very Weak in Strength						6.00	5.00	NIL				
				7.00									7.00	23.00	8.00				
				8.00									8.00	15.00	NIL				
				9.00									9.00	17.00	5.00				
								10.00											







## BORELOG

Borehole - P80

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	5.35M	11.00	5.00		Highly Weathered Rock of Weak in Strength					11.00		35.00	NIL	
				12.00								12.00		25.00	NIL	
				13.00								13.00		42.00	12.00	
				14.00								14.00		30.00	NIL	
				15.00								15.00		38.00	10.00	
				16.00	5.00		Highly Weathered Rock of Moderately Weak in Strength					16.00		30.00	NIL	
				17.00								17.00		35.00	15.00	
				18.00				47	65	71	136		18.00			
				19.00								19.00		25.00	NIL	
				20.00												

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### BORELOG

Borehole - P81

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark					
								N1	N2	N3											
Machine Drilling	Not Used	150 mm.	5.20 M	0.00	3.00		Clay of High Plasticity	7	10	21	31		0.00								
				1.00																	
													1.50								
				2.00																	
													3.00								
				3.00	2.00		Completely Weathered Rock Recovered in Granular Pieces	50/7 cm	-	-	R			7.00	NIL						
				4.00																	
				5.00									5.00								
					5.00		Highly Weathered Rock of Very Weak in Strength							25.00	NIL						
				6.00									6.00								
													7.00								
				7.00																	
													20.00								
				8.00									8.00								
													30.00								
				9.00									9.00								
													14.00								
				10.00									10.00								

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### BORELOG

Borehole - P81

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	5.20 M	11.00	5.00		Highly Weathered Rock of Weak in Strength					11.00		15.00	10.00	
				12.00								12.00		30.00	NIL	
				13.00								13.00		22.00	NIL	
				14.00								14.00		34.00	NIL	
				15.00								15.00		45.00	15.00	
				16.00	1.00		Highly Weathered Rock of Moderately Weak in Strength	48	57	67	124		16.00			
				17.00								17.00		17.00	NIL	
				18.00	4.00		Highly Weathered Rock of Weak in Strength					18.00		35.00	8.00	
				19.00								19.00		40.00	12.00	
				20.00												

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## BORELOG

Borehole - P82

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	6.00 M	0.00	1.50		Clay of High Plasticity	7	15	28	43		0.00			
				1.00												
					2.00		Completely Weathered Rock Recovered in Residual Form	20	50/10 cm	-	R		1.50			
				2.00												
				3.00												
				4.00												
					1.00		Completely Weathered Rock Recovered in Granular Pieces						4.00			
				5.00												
					5.00		Highly Weathered Rock of Very Weak in Strength						5.00	10.00	NIL	
				6.00										15.00	8.00	
				7.00										25.00	12.00	
				8.00										32.00	NIL	
				9.00										23.00	NIL	
								10.00								






### BORELOG

Borehole - P82

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark				
								N1	N2	N3										
Machine Drilling	Not Used	150 mm.	6.00 M		5.00		Highly Weathered Rock of Weak in Strength	55	69	79	148	17.00	10.00	NIL						
				11.00												12.00	13.00	14.00	15.00	Moderately Weathered Rock of Moderately Weak in Strength
				16.00	1.00	Highly Weathered Rock of Weak in Strength														
					2.00		Highly Weathered Rock of Moderately Weak in Strength													
				17.00																
				18.00																
					2.00															
				19.00																
				20.00																

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## BORELOG

Borehole - P83

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	6.10 M	0.00	1.50		Clay of High Plasticity	10	17	27	44		0.00			
				1.00												
					1.50		Clay of Medium Plasticity	50/13 cm	-	-	R		1.50			
				2.00												
				3.00									3.00			
					1.00		Completely Weathered Rock Recovered in Residual Form						4.00	10.00	NIL	
				4.00												
					4.00		Highly Weathered Rock of Very Weak in Strength						5.00	15.00	NIL	
				5.00												
				6.00									6.00	22.00	10.00	
				7.00									7.00	25.00	NIL	
				8.00									8.00	17.00	NIL	
					2.00		Highly Weathered Rock of Weak in Strength						9.00	15.00	NIL	
				9.00												
				10.00									10.00	35.00	11.00	








## BORELOG

Borehole - P83

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark			
								N1	N2	N3									
Machine Drilling	Not Used	150 mm.	6.10 M		4.00		Highly Weathered Rock of Weak in Strength				154		11.00	14.00	NIL				
																	12.00	24.00	10.00
					13.00		32.00	NIL											
					14.00		55.00	35.00											
					15.00		60.00	42.00											
					16.00		16.00												
	4.00	Highly Weathered Rock of Moderately Weak in Strength					17.00	30.00	NIL										

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## BORELOG

Borehole - P84

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark								
								N1	N2	N3														
Machine Drilling	Not Used	150 mm.	6.40 M	0.00	3.00		Clay of High Plasticity	8	15	35	50		0.00											
				1.00																				
				2.00																				
				3.00									2.00					Completely Weathered Rock Recovered in Residual Form	50/8 cm	-	-	R		3.00
				4.00	4.00																			
				5.00	5.00	10.00	NIL																	
				6.00	5.00		Highly Weathered Rock of Very Weak in Strength																	6.00
				7.00									20.00				NIL							
				8.00									15.00	NIL										
				9.00									34.00	10.00										
				10.00									8.00	NIL										








### BORELOG

Borehole - P84

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark			
								N1	N2	N3									
Machine Drilling	Not Used	150 mm.	6.40 M		5.00		Highly Weathered Rock of Weak in Strength	55	75	88	163	18.00		30.00	NIL				
				11.00													11.00	25.00	11.00
				12.00													12.00	25.00	11.00
				13.00													13.00	10.00	NIL
				14.00													14.00	41.00	12.00
				15.00	15.00		54.00										37.00		
					1.00		Moderately Weathered Rock of Moderately Weak in Strength										16.00	44.00	15.00
				17.00													17.00	37.00	10.00
				18.00	2.00		Highly Weathered Rock of Weak in Strength												
				19.00	2.00		Highly Weathered Rock of Moderately Weak in Strength												
				20.00															

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## BORELOG

Borehole - P85

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G. W. L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark		
								N1	N2	N3								
Machine Drilling	Not Used	150 mm.	5.60 M	0.00	1.50		Clay of High Plasticity	10	17	25	42		0.00					
				1.00														
				2.00	2.50		Completely Weathered Rock Recovered in Residual Form	30	50/12 cm	-	R		1.50					
				3.00									3.00					
				4.00	6.00		Highly Weathered Rock of Very Weak in Strength						4.00				10.00	NIL
				5.00									5.00	14.00	7.00			
				6.00									6.00	22.00	NIL			
				7.00									7.00	34.00	8.00			
				8.00									8.00	10.00	NIL			
				9.00	9.00	13.00	NIL											
				10.00														








### BORELOG

Borehole - P85

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark															
								N1	N2	N3																					
Machine Drilling	Not Used	150 mm.	5.60 M		6.00		Highly Weathered Rock of Weak in Strength							15.00	NIL																
				11.00																											
				12.00																											
				13.00																											
										4.00	Highly Weathered Rock of Moderately Weak in Strength	67	78	81	159		18.00														
				14.00																											
				15.00																											
				16.00																											
				17.00																											
				18.00																											
19.00																															
20.00																															

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## BORELOG

Borehole - P86

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark		
								N1	N2	N3								
Machine Drilling	Not Used	150 mm.	5.85 M	0.00	1.50		Clay of High Plasticity	50/4cm	-	-	R		0.00					
				1.00														
					0.50		Clay of Medium Plasticity						1.50					
				2.00														
					2.00		Completely Weathered Rock Recovered in Residual Form						3.00					
				3.00														
				4.00									4.00					
					2.00		Completely Weathered Rock Recovered in Granular Pieces						5.00					
				5.00									6.00				12.00	NIL
				6.00									7.00				13.00	NIL
					4.00		Highly Weathered Rock of Very Weak in Strength						8.00				7.00	NIL
				7.00									9.00				25.00	12.00
				8.00									10.00				34.00	8.00
				9.00														







## BORELOG

Borehole - P86

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	5.85 M	11.00	2.00		Highly Weathered Rock of Very Weak in Strength					11.00		30.00	NIL	
				12.00								12.00		28.00	NIL	
				13.00								13.00		22.00	NIL	
				14.00								14.00		35.00	12.00	
				15.00	6.00		Highly Weathered Rock of Weak in Strength					15.00		40.00	10.00	
				16.00								16.00		42.00	7.00	
				17.00				59	65	77	142		17.00			
				18.00								18.00		61.00	37.00	
				19.00	2.00		Moderately Weathered Rock of Moderately Weak in Strength					19.00		56.00	35.00	
				20.00												

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## BORELOG

Borehole - P87

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark					
								N1	N2	N3											
Machine Drilling	Not Used	150 mm.	4.95 M	0.00	3.00		Clay of High Plasticity	3	4	4	8		0.00								
				1.00																	
													1.50								
				2.00																	
				3.00	1.00		Completely Weathered Rock Recovered in Residual Form	50/4cm					3.00								
				4.00									4.00								
					1.00		Completely Weathered Rock Recovered in Granular Pieces														
				5.00									5.00	16.00	NIL						
					5.00		Highly Weathered Rock of Very Weak in Strength						6.00	22.00	NIL						
				6.00																	
													7.00	22.00	NIL						
				7.00																	
													8.00	20.00	NIL						
				8.00																	
													9.00	23.00	NIL						
				9.00																	
													10.00	29.00	NIL						
				10.00																	







### BORELOG

Borehole - P87

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	4.95 M	11.00	4.00		Highly Weathered Rock of Weak in Strength					11.00		29.00		NIL
				12.00								12.00		33.00		NIL
				13.00								13.00		30.00		10.00
				14.00								14.00		34.00		13.00
				15.00	6.00		Highly Weathered Rock of Moderately Weak in Strength					15.00		35.00		15.00
				16.00				65	76	89	165		16.00			
				17.00								17.00		40.00		15.00
				18.00								18.00		45.00		16.00
				19.00								19.00		41.00		20.00
				20.00												

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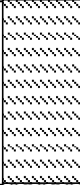






## BORELOG

Borehole - P88

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark					
								N1	N2	N3											
Machine Drilling	Not Used	150 mm.	5.55 M	0.00	1.50		Clay of High Plasticity	7	10	35	45		0.00								
				1.00																	
					1.50		Clay of Medium Plasticity	50/8 cm	-	-	R	1.50									
				2.00																	
				3.00									3.00								
					2.00		Completely Weathered Rock Recovered in Residual Form						4.00								
				4.00																	
				5.00									5.00	10.00	NIL						
					5.00		Highly Weathered Rock of Very Weak in Strength						6.00	9.00	NIL						
				6.00																	
													7.00	22.00	8.00						
				7.00																	
													8.00	14.00	NIL						
				8.00																	
				9.00									9.00	30.00	NIL						
				10.00									10.00	25.00	12.00						







### BORELOG

Borehole - P88

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	5.55 M	11.00	5.00		Highly Weathered Rock of Weak in Strength					11.00		12.00		NIL
				12.00								12.00		14.00		NIL
				13.00								13.00		8.00		NIL
				14.00								14.00		33.00		10.00
				15.00								15.00		44.00		12.00
				16.00	5.00		Highly Weathered Rock of Moderately Weak in Strength	57	68	82	150		16.00			
				17.00								17.00		35.00		NIL
				18.00								18.00		25.00		NIL
				19.00								19.00		38.00		15.00
				20.00												

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### BORELOG

Borehole - P89

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark																								
								N1	N2	N3																														
Machine Drilling	Not Used	150 mm.	6.20 M	0.00	1.50		Clay of Medium Plasticity	50/12 cm	-	-	R		0.00																											
				1.00																																				
				2.00	2.50		Completely Weathered Rock Recovered in Granular Form																																	
				3.00																																				
				4.00	4.00		Highly Weathered Rock of Very Weak in Strength																																	
				5.00																																				
				6.00																																				
				7.00																																				
				8.00																																				
				9.00																																		2.00		Highly Weathered Rock of Weak in Strength
				10.00																																				







## BORELOG

Borehole - P89

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	6.20 M	11.00	2.00		Highly Weathered Rock of Weak in Strength					11.00		14.00	NIL	
				12.00								12.00		57.00	36.00	
				13.00								13.00		60.00	38.00	
				14.00	4.00		Moderately Weathered Rock of Moderately Weak in Strength					14.00		64.00	40.00	
				15.00								15.00		47.00	34.00	
				16.00								16.00		41.00	12.00	
				17.00								17.00		43.00	10.00	
				18.00	4.00		Highly Weathered Rock of Weak in Strength	69	85	98	183		18.00			
				19.00								19.00		30.00	8.00	
				20.00												

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## BORELOG

Borehole - P90

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark					
								N1	N2	N3											
Machine Drilling	Not Used	150 mm.	6.15 M	0.00	3.00		Clay of High Plasticity	8	12	27	39		0.00								
				1.00																	
				2.00									1.50								
				3.00	2.00		Completely Weathered Rock Recovered in Granular Pieces	34	50/6 cm	-	R		3.00								
				4.00																	
				5.00									5.00	20.00	NIL						
					5.00		Highly Weathered Rock of Very Weak in Strength						6.00	33.00	NIL						
				6.00																	
				7.00									7.00	15.00	NIL						
				8.00									8.00	25.00	10.00						
				9.00									9.00	27.00	NIL						
				10.00									10.00	12.00	NIL						







## BORELOG

Borehole - P90

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	6.15 M	11.00	5.00		Highly Weathered Rock of Weak in Strength					11.00		32.00	7.00	
				12.00								12.00		34.00	NIL	
				13.00								13.00		25.00	12.00	
				14.00								14.00		37.00	NIL	
				15.00								15.00		40.00	10.00	
				16.00	1.00		Highly Weathered Rock of Moderately Weak in Strength					16.00		23.00	NIL	
				17.00								17.00		25.00	NIL	
				18.00	4.00		Highly Weathered Rock of Weak in Strength	65	85	99	184		18.00			
				19.00								19.00		45.00	12.00	
				20.00												

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## BORELOG

Borehole - P91

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark								
								N1	N2	N3														
Machine Drilling	Not Used	150 mm.	6.15 M	0.00	3.00		Clay of High Plasticity	8	12	25	37		0.00											
				1.00														1.50						
				2.00																				
				3.00									1.00					Completely Weathered Rock Recovered in Residual Form	20	50/10 cm	-	R		3.00
				4.00																				
					1.00		Completely Weathered Rock Recovered in Granular Pieces																	
				5.00									5.00				7.00	NIL						
				6.00	5.00		Highly Weathered Rock of Very Weak in Strength																	
														6.00	10.00		NIL							
				7.00											7.00		15.00	10.00						
															8.00		35.00	NIL						
				9.00											9.00		20.00	NIL						
															10.00		18.00	NIL						








## BORELOG

Borehole - P91

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark		
								N1	N2	N3								
Machine Drilling	Not Used	150 mm.	6.15 M		5.00		Highly Weathered Rock of Weak in Strength	58	67	75	142	17.00						
				11.00												11.00	25.00	NIL
				12.00												12.00	35.00	NIL
				13.00												13.00	15.00	NIL
				14.00	14.00		25.00									NIL		
				15.00	1.00		Moderately Weathered Rock of Moderately Weak in Strength									15.00	60.00	36.00
				16.00												16.00	37.00	15.00
				17.00	2.00		Highly Weathered Rock of Weak in Strength									18.00	40.00	10.00
				18.00														
				19.00	2.00		Highly Weathered Rock of Moderately Weak in Strength									19.00	33.00	NIL
				20.00														

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## BORELOG

Borehole - P92

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark					
								N1	N2	N3											
Machine Drilling	Not Used	150 mm.	5.50 M	0.00	3.00		Clay of High Plasticity	8	11	22	33		0.00								
				1.00																	
				2.00									1.50								
				3.00	2.00		Completely Weathered Rock Recovered in Granular Pieces	50/5c m	-	-	R		3.00								
				4.00																	
				5.00									5.00	10.00	NIL						
					5.00		Highly Weathered Rock of Very Weak in Strength														
				6.00									6.00	15.00	NIL						
				7.00									7.00	23.00	8.00						
				8.00									8.00	35.00	NIL						
				9.00									9.00	17.00	NIL						
				10.00									10.00	8.00	NIL						







### BORELOG

Borehole - P92

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	5.50 M	11.00	5.00		Highly Weathered Rock of Weak in Strength					11.00		36.00	11.00	
				12.00								12.00		28.00	NIL	
				13.00								13.00		32.00	NIL	
				14.00								14.00		34.00	NIL	
				15.00								15.00		40.00	12.00	
				16.00	1.00		Highly Weathered Rock of Moderately Weak in Strength					16.00		21.00	NIL	
				17.00				59	70	85	155		17.00			
				18.00	4.00		Highly Weathered Rock of Weak in Strength					18.00		34.00	7.00	
				19.00								19.00		42.00	10.00	
				20.00												

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## BORELOG

Borehole - P93

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	5.90 M	0.00	1.50		Clay of High Plasticity	5	12	27	39		0.00			
				1.00												
					2.00		Completely Weathered Rock Recovered in Residual Form	32	50/13 cm	-	R		1.50			
				2.00												
				3.00												
				4.00												
					1.00		Completely Weathered Rock Recovered in Granular Pieces						4.00			
				5.00												
					5.00		Highly Weathered Rock of Very Weak in Strength						5.00	12.00	NIL	
				6.00										17.00	8.00	
				7.00										25.00	12.00	
				8.00										30.00	NIL	
				9.00										42.00	9.00	
				10.00										15.00	NIL	

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### BORELOG

Borehole - P93

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark			
								N1	N2	N3									
Machine Drilling	Not Used	150 mm.	5.90 M		5.00		Highly Weathered Rock of Weak in Strength	48	65	77	142		16.00	22.00	NIL				
				11.00								12.00		13.00	14.00		15.00	60.00	37.00
												1.00		Moderately Weathered Rock of Moderately Weak in Strength					
				16.00															
				17.00								2.00		Highly Weathered Rock of Weak in Strength				35.00	14.00
				18.00	18.00	23.00	7.00												
					2.00	Highly Weathered Rock of Moderately Weak in Strength													
				19.00			19.00					30.00		NIL					
				20.00															

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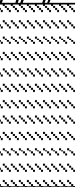





## BORELOG

Borehole - P94

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark						
								N1	N2	N3												
Machine Drilling	Not Used	150 mm.	6.30 M	0.00	1.50		Clay of High Plasticity	12	15	27	42		0.00									
				1.00																		
				2.00	1.50		Clay of Medium Plasticity						1.50									
				3.00									3.00									
				4.00	1.00		Completely Weathered Rock Recovered in Residual Form						50/10 cm				-	-	R	4.00	10.00	NIL
				5.00	4.00		Highly Weathered Rock of Very Weak in Strength													5.00	14.00	NIL
				6.00																6.00	25.00	10.00
				7.00				7.00	20.00	NIL												
				8.00				8.00	15.00	NIL												
				9.00				2.00	Highly Weathered Rock of Weak in Strength	9.00	8.00	NIL										
10.00																						
										10.00	30.00	10.00										







## BORELOG

Borehole - P94

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	6.30 M	11.00	4.00		Highly Weathered Rock of Weak in Strength					11.00		12.00		NIL
				12.00								12.00		25.00	12.00	
				13.00								13.00		33.00		NIL
				14.00								14.00		57.00	35.00	
				15.00	2.00		Moderately Weathered Rock of Moderately Weak in Strength					15.00		62.00	40.00	
				16.00				46	58	75	133		16.00			
				17.00	4.00		Highly Weathered Rock of Moderately Weak in Strength					17.00		37.00		NIL
				18.00								18.00		30.00		NIL
				19.00								19.00		23.00		NIL
				20.00												

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## BORELOG

Borehole - P95

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark					
								N1	N2	N3											
Machine Drilling	Not Used	150 mm.	4.90 M	0.00	3.00		Clay of High Plasticity	9	14	33	47		0.00								
				1.00																	
				2.00									1.50								
				3.00	2.00		Completely Weathered Rock Recovered in Residual Form	50/10 cm	-	-	R		3.00								
				4.00													4.00				
				5.00													5.00	15.00	NIL		
													5.00		Highly Weathered Rock of Very Weak in Strength						5.00
				6.00	6.00	12.00	NIL														
				7.00	7.00	34.00	10.00														
				8.00	8.00	10.00	NIL														
				9.00	9.00	22.00	NIL														
				10.00	10.00	45.00	12.00														







## BORELOG

Borehole - P95

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark		
								N1	N2	N3								
Machine Drilling	Not Used	150 mm.	4.90 M		5.00		Highly Weathered Rock of Weak in Strength	62	72	80	152	17.00	20.00	NIL				
				11.00												11.00	20.00	NIL
				12.00												12.00	27.00	NIL
				13.00												13.00	10.00	NIL
				14.00												14.00	43.00	11.00
				15.00	15.00		58.00									40.00		
					1.00		Moderately Weathered Rock of Moderately Weak in Strength									16.00	45.00	15.00
				17.00												2.00	Highly Weathered Rock of Weak in Strength	18.00
				18.00	2.00		Highly Weathered Rock of Moderately Weak in Strength											19.00
				19.00												20.00		

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## BORELOG

Borehole - P96

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark						
								N1	N2	N3												
Machine Drilling	Not Used	150 mm.	5.30 M	0.00	1.50		Clay of High Plasticity	7	15	22	37		0.00									
				1.00																		
					2.50		Completely Weathered Rock Recovered in Residual Form	27	52/10 cm	-	R		1.50									
				2.00										3.00								
				3.00																		
				4.00																		
					6.00		Highly Weathered Rock of Very Weak in Strength						4.00	8.00	NIL							
				5.00																		
				6.00																		
				7.00																		
				8.00																		
				9.00																		
				</																		






## BORELOG

Borehole - P96

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark			
								N1	N2	N3									
Machine Drilling	Not Used	150 mm.	5.30 M		6.00		Highly Weathered Rock of Weak in Strength				146		17.00						
				11.00													11.00	14.00	NIL
				12.00													12.00	34.00	NIL
				13.00													13.00	12.00	NIL
				14.00													14.00	24.00	10.00
				15.00													15.00	44.00	12.00
				16.00													16.00	35.00	11.00
				17.00													51	67	79
				18.00	4.00		Highly Weathered Rock of Moderately Weak in Strength	18.00	28.00	8.00									
				19.00				21.00	NIL										
				20.00															

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## BORELOG

Borehole - P97

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	5.00 M	0.00	4.50		Clay of High Plasticity						0.00			
				1.00												
								3	5	7	10		1.50			
				2.00	4.50		Clay of High Plasticity									
				3.00				7	16	30	46		3.00			
				4.00												
					2.50		Completely Weathered Rock Recovered in Residual Form	10	21	34	55		4.50			
				5.00												
				6.00				16	32	50	82		6.00			
				7.00	1.00		Completely Weathered Rock Recovered in Granular Pieces					7.00				
				8.00	2.00		Highly Weathered Rock of Very Weak in Strength					8.00		24.00	NIL	
				9.00								9.00		26.00	NIL	
				10.00								10.00		45.00	25.00	







### BORELOG

Borehole - P97

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	5.00 M		1.00		Moderately Weathered Rock of Weak in Strength									
				11.00								11.00		38.00		NIL
				12.00	2.00		Highly Weathered Rock of Weak in Strength					12.00		29.00		NIL
				13.00								13.00		34.00		15.00
				14.00								14.00		38.00		17.00
				15.00	3.00		Highly Weathered Rock of Moderately Weak in Strength					15.00		40.00		19.00
				16.00				57	69	81	150		16.00			
				17.00	2.00		Moderately Weathered Rock of Moderately Weak in Strength					17.00		59.00		27.00
				18.00								18.00		40.00		19.00
				19.00	3.00		Highly Weathered Rock of Moderately Weak in Strength					19.00		45.00		20.00
				20.00												







## BORELOG

Borehole - P98

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	5.20M	0.00	1.50		Clay of High Plasticity	7	15	25	40		0.00			
				1.00												
					3.00		Clay of Medium Plasticity	10	22	27	49		1.50			
				2.00												
				3.00									3.00			
				4.00												
					1.50		Completely Weathered Rock Recovered in Residual Form	50/11 cm	-	-	R		4.50			
				5.00									5.00			
				6.00	4.00		Highly Weathered Rock of Very Weak in Strength						6.00	7.00	NIL	
				7.00									7.00	22.00	8.00	
				8.00									8.00	12.00	NIL	
				9.00									9.00	25.00	NIL	
				10.00									10.00	35.00	10.00	








## BORELOG

Borehole - P98

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	5.20M		5.00		Highly Weathered Rock of Weak in Strength	52	69	78	147					
				11.00									11.00		30.00	NIL
				12.00									12.00		40.00	10.00
				13.00									13.00		25.00	NIL
				14.00									14.00		20.00	NIL
				15.00			15.00						35.00	7.00		
					5.00		Highly Weathered Rock of Moderately Weak in Strength									
				16.00									16.00		29.00	NIL
				17.00									17.00		39.00	10.00
				18.00												
19.00		19.00		27.00		NIL										
20.00																

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












### BORELOG

Borehole - P99

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark																																								
								N1	N2	N3																																														
Machine Drilling	Not Used	150 mm.	5.45 M	0.00	1.50		Clay of High Plasticity	50/8cm	-	-	R		0.00																																											
				1.00																																																				
					0.50		Clay of Medium Plasticity												R		1.50																																			
				2.00																																																				
					2.00		Completely Weathered Rock Recovered in Residual Form																				R		3.00																											
				3.00																																																				
					2.00		Completely Weathered Rock Recovered in Residual Form																												R		4.00																			
				4.00																																																				
					2.00		Completely Weathered Rock Recovered in Granular Pieces																																				R		5.00											
				5.00																																																				
					2.00		Completely Weathered Rock Recovered in Granular Pieces																																												R		6.00			
				6.00																																																				
	4.00		Highly Weathered Rock of Very Weak in Strength				R		7.00																																															
7.00																																																								
									4.00					Highly Weathered Rock of Very Weak in Strength				R		8.00																																				
8.00																																																								
	4.00		Highly Weathered Rock of Very Weak in Strength																	R					9.00																															
9.00																																																								
	4.00		Highly Weathered Rock of Very Weak in Strength																												R		10.00																							
10.00																																																								







## BORELOG

Borehole - P99

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	5.45 M	11.00	2.00		Highly Weathered Rock of Very Weak in Strength					11.00		25.00	NIL	
				12.00								12.00		30.00	NIL	
				13.00								13.00		25.00	NIL	
				14.00								14.00		37.00	10.00	
				15.00	6.00		Highly Weathered Rock of Weak in Strength					15.00		35.00	8.00	
				16.00								16.00		25.00	NIL	
				17.00								17.00		43.00	11.00	
				18.00				64	70	79	149		18.00			
				19.00	2.00		Moderately Weathered Rock of Moderately Weak in Strength					19.00		60.00	41.00	
				20.00												











## BORELOG

Borehole - P100

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark								
								N1	N2	N3														
Machine Drilling	Not Used	150 mm.	5.30 M	0.00	3.00		Clay of High Plasticity	4	7	10	17		0.00											
				1.00														1.50						
				2.00																				
				3.00									1.00					Completely Weathered Rock Recovered in Residual Form	50/6 cm	-	-	R		3.00
				4.00	4.00																			
					1.00		Completely Weathered Rock Recovered in Granular Pieces																	
				5.00									5.00				15.00	NIL						
				6.00	5.00		Highly Weathered Rock of Very Weak in Strength																	
				7.00									6.00	23.00	NIL									
				8.00									7.00	20.00	NIL									
				9.00									8.00	19.00	NIL									
				10.00									9.00	33.00	8.00									
					10.00	29.00	NIL																	







### BORELOG

Borehole - P100

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	5.30 M	11.00	4.00		Highly Weathered Rock of Weak in Strength					11.00		28.00		NIL
				12.00								12.00		35.00		NIL
				13.00								13.00		36.00		10.00
				14.00								14.00		43.00		12.00
				15.00	6.00		Highly Weathered Rock of Moderately Weak in Strength					15.00		32.00		NIL
				16.00								16.00		21.00		NIL
				17.00				49	70	87	157		17.00			
				18.00								18.00		46.00		15.00
				19.00								19.00		37.00		NIL
				20.00												











## BORELOG

Borehole - P101

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark		
								N1	N2	N3								
Machine Drilling	Not Used	150 mm.	5.90 M	0.00	1.50		Clay of Medium Plasticity	30	50/08 cm	-	R		0.00					
				1.00														
					2.50		Completely Weathered Rock Recovered in Granular Form						1.50					
				2.00														
													3.00					
				3.00														
				4.00									4.00				13.00	NIL
					4.00		Highly Weathered Rock of Very Weak in Strength						5.00				20.00	10.00
				5.00														
													6.00				25.00	NIL
				6.00														
													7.00				30.00	NIL
				7.00														
													8.00				17.00	NIL
				8.00														
					2.00		Highly Weathered Rock of Weak in Strength						9.00				8.00	NIL
				9.00														
													10.00				28.00	9.00
				10.00														







## BORELOG

Borehole - P101

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	5.90 M	11.00	2.00		Highly Weathered Rock of Weak in Strength					11.00		12.00	NIL	
				12.00								12.00		57.00	35.00	
				13.00								13.00		61.00	38.00	
				14.00	4.00		Moderately Weathered Rock of Moderately Weak in Strength					14.00		65.00	40.00	
				15.00								15.00		67.00	45.00	
				16.00								16.00		47.00	22.00	
				17.00								17.00		42.00	11.00	
				18.00	4.00		Highly Weathered Rock of Weak in Strength	48	65	75	140		18.00			
				19.00								19.00		23.00	NIL	
				20.00												

S. Naik

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## BORELOG

Borehole - P102

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	5.00 M	0.00	1.50		Clay of High Plasticity	6	10	15	25		0.00			
				1.00												
					3.00		Clay of Medium Plasticity	16	20	27	47		1.50			
				2.00												
				3.00												
				4.00												
					1.50		Completely Weathered Rock Recovered in Residual Form	20	50/10 cm	-	R		4.50			
				5.00												
					4.00		Highly Weathered Rock of Very Weak in Strength						5.00	8.00	NIL	
				6.00												
													6.00			
				7.00												
													7.00			
				8.00												
													8.00			
				9.00												
													9.00			
				10.00												
	10.00															






## BORELOG

Borehole - P102

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	5.00 M		5.00		Highly Weathered Rock of Weak in Strength	51	62	75	137	11.00	34.00	NIL		
				12.00								20.00	NIL			
				13.00								40.00	15.00			
				14.00								37.00	NIL			
				15.00								40.00	10.00			
				16.00	32.00		NIL					Highly Weathered Rock of Moderately Weak in Strength				
				17.00	22.00		NIL									
				18.00	42.00		16.00									
				19.00												
				20.00												

S. Naveen

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### BORELOG

Borehole - P103

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark								
								N1	N2	N3														
Machine Drilling	Not Used	150 mm.	5.80 M	0.00	3.00		Clay of High Plasticity	7	12	27	39		0.00											
				1.00														1.50						
				2.00																				
				3.00									1.00					Completely Weathered Rock Recovered in Residual Form	21	50/6 cm	-	R		3.00
				4.00	1.00		Completely Weathered Rock Recovered in Granular Pieces	5.00	12.00	NIL														
				5.00				5.00		Highly Weathered Rock of Very Weak in Strength														
				6.00	6.00	27.00	10.00																	
				7.00	7.00	20.00	NIL																	
				8.00	8.00	30.00	NIL																	
				9.00	9.00	12.00	NIL																	
				10.00	10.00	10.00	NIL																	







### BORELOG

Borehole - P103

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	5.80 M	11.00	5.00		Highly Weathered Rock of Weak in Strength					11.00		28.00		NIL
				12.00								12.00		35.00		NIL
				13.00								13.00		27.00		8.00
				14.00								14.00		20.00		NIL
				15.00								15.00		49.00		65.00
				16.00	1.00		Moderately Weathered Rock of Moderately Weak in Strength					16.00		44.00		12.00
				17.00								17.00		38.00		9.00
				18.00	2.00		Highly Weathered Rock of Weak in Strength	55	68	75	143		18.00			
				19.00								19.00		31.00		NIL
				20.00	2.00		Highly Weathered Rock of Moderately Weak in Strength									










## BORELOG

Borehole - P104

Depth of Bore : 20.00 Mtr

Machine Drilling																										
Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark										
								N1	N2	N3																
	Not Used	150 mm.	5.10 M	0.00	3.00		Clay of High Plasticity	12	16	25	41		0.00													
				1.00														1.50								
				2.00														2.00		Completely Weathered Rock Recovered in Granular Pieces	50/10 cm	-	-	R		3.00
				3.00																						
				4.00																						
				5.00		5.00	10.00	NIL																		
				6.00	5.00		Highly Weathered Rock of Very Weak in Strength																			
				7.00									6.00	25.00	NIL											
				8.00									7.00	10.00	NIL											
				9.00									8.00	32.00	10.00											
				10.00									9.00	23.00	NIL											
													10.00	15.00	NIL											




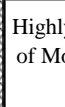
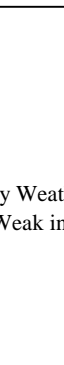




## BORELOG

Borehole - P104

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark	
								N1	N2	N3							
Machine Drilling	Not Used	150 mm.	5.10 M		5.00		Highly Weathered Rock of Weak in Strength	55	67	72	139						
				11.00									11.00	40.00	10.00		
				12.00									12.00	30.00	NIL		
				13.00		13.00	21.00					NIL					
				14.00		14.00	15.00					NIL					
				15.00		15.00	35.00					8.00					
					1.00		Highly Weathered Rock of Moderately Weak in Strength					16.00	22.00	NIL			
				16.00													
					4.00		Highly Weathered Rock of Weak in Strength										
				17.00									17.00				
18.00		18.00	37.00	8.00													
19.00		19.00	20.00	NIL													
20.00																	

S. Naveen

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### BORELOG

Borehole - P105

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G. W. L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark		
								N1	N2	N3								
Machine Drilling	Not Used	150 mm.	4.80M	0.00	1.50		Clay of High Plasticity	6	11	30	41		0.00					
				1.00														
					1.50		Clay of Medium Plasticity						1.50					
				2.00													3.00	
				3.00														
					2.00		Completely Weathered Rock Recovered in Residual Form						4.00					
				4.00													5.00	
				5.00														
					5.00		Highly Weathered Rock of Very Weak in Strength						6.00				11.00	NIL
				6.00														
													7.00				22.00	7.00
				7.00														
													8.00				30.00	NIL
				8.00														
													9.00				37.00	10.00
				9.00														
													10.00				25.00	12.00
				10.00														








## BORELOG

Borehole - P105

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	4.80M	11.00	5.00		Highly Weathered Rock of Weak in Strength	51	67	79	146	11.00	17.00	15.00	NIL	
				12.00								12.00		24.00	NIL	
				13.00								13.00		35.00	8.00	
				14.00								14.00		22.00	NIL	
				15.00								15.00		42.00	10.00	
				16.00	5.00		Highly Weathered Rock of Moderately Weak in Strength					16.00		40.00	NIL	
				17.00								17.00				
				18.00								18.00		25.00	NIL	
				19.00								19.00		17.00	NIL	
				20.00												

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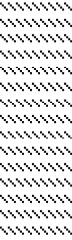







## BORELOG

Borehole - P106

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark		
								N1	N2	N3								
Machine Drilling	Not Used	150 mm.	6.15 M	0.00	1.50		Clay of Medium Plasticity	50/10 cm	-	-	R		0.00					
				1.00														
					2.50		Completely Weathered Rock Recovered in Granular Form						1.50					
				2.00														
													3.00					
				3.00														
													4.00				10.00	NIL
				4.00	4.00		Highly Weathered Rock of Very Weak in Strength						4.00					
													5.00				15.00	NIL
				5.00														
													6.00				8.00	NIL
				6.00														
													7.00				34.00	10.00
				7.00														
													8.00				20.00	NIL
				8.00	2.00		Highly Weathered Rock of Weak in Strength						8.00					
													9.00				15.00	NIL
				9.00														
													10.00				40.00	7.00
				10.00									10.00					







## BORELOG

Borehole - P106

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	6.15 M	11.00	2.00		Highly Weathered Rock of Weak in Strength					11.00		10.00	NIL	
				12.00								12.00		58.00	35.00	
				13.00								13.00		55.00	34.00	
				14.00	4.00		Moderately Weathered Rock of Moderately Weak in Strength					14.00		60.00	40.00	
				15.00								15.00		45.00	37.00	
				16.00								16.00		37.00	20.00	
				17.00								17.00		40.00	10.00	
				18.00	4.00		Highly Weathered Rock of Weak in Strength	56	68	85	153		18.00			
				19.00								19.00		32.00	8.00	
				20.00												












## BORELOG

Borehole - P107

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark	
								N1	N2	N3							
Machine Drilling	Not Used	150 mm.	5.80 M	0.00	1.50		Clay of High Plasticity	50/8cm	-	-	R	0.00					
				1.00													
					0.50		Clay of Medium Plasticity					1.50					
				2.00													
					2.00		Completely Weathered Rock Recovered in Residual Form										3.00
				3.00													
				4.00													
					2.00		Completely Weathered Rock Recovered in Granular Pieces					5.00					
				5.00													
				6.00													
					4.00		Highly Weathered Rock of Very Weak in Strength					7.00	10.00	NIL	NIL		
				7.00													
				8.00													
				9.00													
10.00																	








## BORELOG

Borehole - P107

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark					
								N1	N2	N3											
Machine Drilling	Not Used	150 mm.	5.80 M		5.00		Highly Weathered Rock of Weak in Strength	61	72	83	155		18.00								
				11.00													11.00	30.00	NIL		
				12.00													12.00	32.00	NIL		
				13.00													13.00	24.00	NIL		
				14.00													14.00	37.00	12.00		
				15.00	15.00		55.00										35.00				
					1.00		Moderately Weathered Rock of Moderately Weak in Strength										16.00	38.00	11.00		
				17.00													40.00	15.00			
				18.00	2.00		Highly Weathered Rock of Weak in Strength														
				19.00													2.00	Highly Weathered Rock of Moderately Weak in Strength	19.00	22.00	NIL
				20.00																	










## BORELOG

Borehole - P108

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark		
								N1	N2	N3								
Machine Drilling	Not Used	150 mm.	5.30 M	0.00	1.50		Clay of High Plasticity	8	12	20	32		0.00					
				1.00														
					2.50		Completely Weathered Rock Recovered in Residual Form	15	25	32	57		1.50					
				2.00														
				3.00														
				4.00														
					6.00		Highly Weathered Rock of Very Weak in Strength						4.00	23.00	NIL			
				5.00										10.00	5.00			
				6.00										25.00	NIL			
				7.00										33.00	10.00			
				8.00										14.00	NIL			
				9.00										10.00	NIL			
				10.00														





### BORELOG

Borehole - P108

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth (M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark
								N1	N2	N3						
Machine Drilling	Not Used	150 mm.	5.30 M	11.00	4.00		Highly Weathered Rock of Weak in Strength					11.00		15.00		NIL
				12.00								12.00		25.00		10.00
				13.00								13.00		12.00		NIL
				14.00								14.00		60.00		36.00
				15.00	2.00		Moderately Weathered Rock of Moderately Weak in Strength					15.00		63.00		40.00
				16.00								16.00		46.00		10.00
				17.00	2.00		Highly Weathered Rock of Weak in Strength					17.00		37.00		NIL
				18.00				49	66	77	143		18.00			
				19.00	2.00		Highly Weathered Rock of Moderately Weak in Strength					19.00		22.00		NIL
				20.00												

S. Naveen

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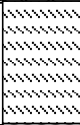






## BORELOG

Borehole - P109

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark					
								N1	N2	N3											
Machine Drilling	Not Used	150 mm.	6.10 M	0.00	3.00		Clay of High Plasticity	15	20	32	52		0.00								
				1.00																	
				2.00									1.50								
				3.00	1.00		Clay of Medium Plasticity	50/8cm	-	-	R		3.00								
				4.00									4.00								
				5.00	2.00		Completely Weathered Rock Recovered in Granular Pieces						5.00								
				6.00									6.00	14.00	NIL						
				7.00	4.00		Highly Weathered Rock of Very Weak in Strength						7.00	18.00	NIL						
				8.00									8.00	22.00	NIL						
				9.00									9.00	34.00	NIL						
				10.00									10.00	40.00	10.00						








### BORELOG

Borehole - P109

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark			
								N1	N2	N3									
Machine Drilling	Not Used	150 mm.	6.10 M		6.00		Highly Weathered Rock of Weak in Strength												
				11.00													11.00	37.00	NIL
				12.00															
				13.00															
				14.00															
				15.00															
				16.00															
				17.00															
				18.00															
				19.00															
				20.00															

S. Naveen

Vishwas Geotech Pvt. Ltd.









## BORELOG

Borehole - P110

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark								
								N1	N2	N3														
Machine Drilling	Not Used	150 mm.	6.35 M	0.00	3.00		Clay of High Plasticity	10	23	25	48		0.00											
				1.00																				
				2.00																				
				3.00									1.00					Completely Weathered Rock Recovered in Residual Form	50/13 cm	-	-	R		3.00
				4.00	4.00																			
					1.00		Completely Weathered Rock Recovered in Granular Pieces																	
				5.00									5.00				10.00	NIL						
				6.00	5.00		Highly Weathered Rock of Very Weak in Strength						6.00				15.00	NIL						
				7.00																				
				8.00									20.00	5.00										
				9.00																				
													18.00	NIL										
													32.00	NIL										
				10.00		25.00	NIL																	








## BORELOG

Borehole - P110

Depth of Bore : 20.00 Mtr

Method of Boring	Casing	Bore Diameter	G.W.L.	Depth ( M)	Thickness of Layer (M)	Hatching	VISUAL SOIL DESCRIPTION	S.P.T. No. of Blows			N- Value	Un Disturbed Sample	Disturbed Sample	Core Recovery (%)	RQD (%)	Remark			
								N1	N2	N3									
Machine Drilling	Not Used	150 mm.	6.35 M		5.00		Highly Weathered Rock of Weak in Strength	61	78	93	171		18.00						
				11.00													11.00	30.00	NIL
				12.00													12.00	25.00	NIL
				13.00													13.00	10.00	NIL
				14.00													14.00	37.00	15.00
				15.00	15.00		55.00										36.00		
					1.00		Moderately Weathered Rock of Moderately Weak in Strength										16.00	45.00	11.00
				17.00	2.00		Highly Weathered Rock of Weak in Strength										17.00	54.00	12.00
				18.00															
				19.00	2.00		Highly Weathered Rock of Moderately Weak in Strength										19.00	13.00	NIL
				20.00															

S. Naik

Vishwas Geotech Pvt. Ltd.



## (A-2) VERTICAL LOAD CARRYING CAPACITY

### (A) Typical Calculation for Safe Load Carrying Capacity of Pile based on Static Formula

#### (1) LOAD CARRYING CAPACITY OF PILE (BH-A01)

Pile Diameter = 1.00	mtr	Pile Depth = 12.00	m
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#### For Rock

The Ultimate Load Carrying capacity

$$Q_c = R_e + R_{ef} \\ = (K_{sp} * q_c * d_f * A_b) + (A_s * q_s)$$

$R_e$  = Ultimate end bearing

$R_{ef}$  = Ultimate side socket shear

Type of Discontinuity	Ksp
Very Wide	0.40
Wide	0.25
Moderately wide	0.10

$K_{sp}$  = An Empirical Coefficient = 0.40

$q_c$  = Average uniaxial compressive strength at tip level = 58.5 Mpa

D = Diameter of Pile = 1000.00 mm

$A_b$  = Cross sectional area of base of pile = 785714.29 mm<sup>2</sup>

l = Length of Socket = 500.0 mm

$d_f$  = Depth Factor = 1.2

$A_s$  = surface area of socket = 1571429 mm<sup>2</sup>

$q_s$  = ultimate shear along the socket = 1.721 Mpa

#### Safe Load Carrying Capacity of Pile

$$Q_s = (K_{sp} * q_c * d_f * A_b) / 3 + (A_s * q_s) / 6$$

F.O.S.	3	for bearing component
F.O.S.	6	for socket side resistance component

$$= 7354286 + 450717 \text{ N}$$

$$= 7805003 \text{ N}$$

$$= 7805 \text{ KN}$$

$$\text{Say } 781 \text{ T}$$

$$\text{Total Safe Load Carrying Capacity Of Pile } Q_s = 781 \text{ T}$$





## (A-2) VERTICAL LOAD CARRYING CAPACITY

### (A) Typical Calculation for Safe Load Carrying Capacity of Pile based on Static Formula (IRC-78)

#### (1) LOAD CARRYING CAPACITY OF PILE (BH-A01)

Pile Diameter = 1.00	mtr	Pile Depth = 14.00	m
----------------------	-----	--------------------	---

#### For Rock

The Ultimate Load Carrying capacity

$$Q_e = R_e + R_{ef} \\ = (K_{sp} * q_c * d_f * A_b) + (A_s * q_s)$$

$R_e$  = Ultimate end bearing

$R_{ef}$  = Ultimate side socket shear

Type of Discontinuity	$K_{sp}$
Very Wide	0.40
Wide	0.25
Moderately wide	0.10

$K_{sp}$  = An Empirical Coefficient = 0.40

$q_c$  = Average uniaxial compressive strength at tip level = 67.8 Mpa

$D$  = Diameter of Pile = 1000.00 mm

$A_b$  = Cross sectional area of base of pile = 785714.29 mm<sup>2</sup>

$l$  = Length of Socket = 500.0 mm

$d_f$  = Depth Factor = 1.2

$A_s$  = surface area of socket = 1571429 mm<sup>2</sup>

$q_s$  = ultimate shear along the socket = 1.853 Mpa

#### Safe Load Carrying Capacity of Pile

$$Q_s = (K_{sp} * q_c * d_f * A_b) / 3 + (A_s * q_s) / 6$$

F.O.S.	3	for bearing component
F.O.S.	6	for socket side resistance component

$$= 8523429 + 485222 \text{ N}$$

$$= 9008651 \text{ N}$$

$$= 9009 \text{ KN}$$

$$\text{Say } 901 \text{ T}$$

$$\text{Total Safe Load Carrying Capacity Of Pile } Q_s = 901 \text{ T}$$





## (A-2) VERTICAL LOAD CARRYING CAPACITY

### (A) Typical Calculation for Safe Load Carrying Capacity of Pile based on Static Formula (IRC-78)

#### (1) LOAD CARRYING CAPACITY OF PILE (BH-A01)

Pile Diameter = 1.00	mtr	Pile Depth = 16.00	m
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#### For Rock

The Ultimate Load Carrying capacity

$$Q_e = R_e + R_{ef} \\ = (K_{sp} * q_c * d_f * A_b) + (A_s * q_s)$$

$R_e$  = Ultimate end bearing

$R_{ef}$  = Ultimate side socket shear

Type of Discontinuity	Ksp
Very Wide	0.40
Wide	0.25
Moderately wide	0.10

$K_{sp}$  = An Empirical Coefficient = 0.400

$q_c$  = Average uniaxial compressive strength at tip level = 73.5 Mpa

D = Diameter of Pile = 1000.00 mm

$A_b$  = Cross sectional area of base of pile = 785714.29 mm<sup>2</sup>

l = Length of Socket = 500.0 mm

$d_f$  = Depth Factor = 1.2

$A_s$  = surface area of socket = 1571429 mm<sup>2</sup>

$q_s$  = ultimate shear along the socket = 1.929 Mpa

#### Safe Load Carrying Capacity of Pile

$$Q_s = (K_{sp} * q_c * d_f * A_b) / 3 + (A_s * q_s) / 6$$

F.O.S.	3	for bearing component
F.O.S.	6	for socket side resistance component

$$= 9240000 + 505207 \text{ N}$$

$$= 9745207 \text{ N}$$

$$= 9745 \text{ KN}$$

$$\text{Say } 975 \text{ T}$$

$$\text{Total Safe Load Carrying Capacity Of Pile } Q_s = 975 \text{ T}$$





## (A-2) VERTICAL LOAD CARRYING CAPACITY

### (A) Typical Calculation for Safe Load Carrying Capacity of Pile based on Static Formula

#### (1) LOAD CARRYING CAPACITY OF PILE (BH-A01)

Pile Diameter = 1.20	mtr	Pile Depth = 12.00	m
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#### For Rock

The Ultimate Load Carrying capacity

$$Q_e = R_e + R_{ef} \\ = (K_{sp} * q_c * d_f * A_b) + (A_s * q_s)$$

$R_e$  = Ultimate end bearing

$R_{ef}$  = Ultimate side socket shear

Type of Discontinuity	Ksp
Very Wide	0.40
Wide	0.25
Moderately wide	0.10

$K_{sp}$  = An Empirical Coefficient = 0.40

$q_c$  = Average uniaxial compressive strength at tip level = 58.5 Mpa

D = Diameter of Pile = 1200.00 mm

$A_b$  = Cross sectional area of base of pile = 1131428.57 mm<sup>2</sup>

l = Length of Socket = 600.0 mm

$d_f$  = Depth Factor = 1.2

$A_s$  = surface area of socket = 2262857 mm<sup>2</sup>

$q_s$  = ultimate shear along the socket = 1.721 Mpa

#### Safe Load Carrying Capacity of Pile

$$Q_s = (K_{sp} * q_c * d_f * A_b) / 3 + (A_s * q_s) / 6$$

F.O.S.	3	for bearing component
F.O.S.	6	for socket side resistance component

$$= 10590171 + 649032 \text{ N}$$

$$= 11239204 \text{ N}$$

$$= 11239 \text{ KN}$$

$$\text{Say } 1124 \text{ T}$$

$$\text{Total Safe Load Carrying Capacity Of Pile } Q_s = 1124 \text{ T}$$





## (A-2) VERTICAL LOAD CARRYING CAPACITY

### (A) Typical Calculation for Safe Load Carrying Capacity of Pile based on Static Formula (IRC-78)

#### (1) LOAD CARRYING CAPACITY OF PILE (BH-A01)

Pile Diameter = 1.20	mtr	Pile Depth = 14.00	m
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#### For Rock

The Ultimate Load Carrying capacity

$$Q_e = R_e + R_{ef} \\ = (K_{sp} * q_c * d_f * A_b) + (A_s * q_s)$$

$R_e$  = Ultimate end bearing

$R_{ef}$  = Ultimate side socket shear

Type of Discontinuity	Ksp
Very Wide	0.40
Wide	0.25
Moderately wide	0.10

$K_{sp}$  = An Empirical Coefficient = 0.40

$q_c$  = Average uniaxial compressive strength at tip level = 67.8 Mpa

D = Diameter of Pile = 1200.00 mm

$A_b$  = Cross sectional area of base of pile = 1131428.57 mm<sup>2</sup>

l = Length of Socket = 600.0 mm

$d_f$  = Depth Factor = 1.2

$A_s$  = surface area of socket = 2262857 mm<sup>2</sup>

$q_s$  = ultimate shear along the socket = 1.853 Mpa

#### Safe Load Carrying Capacity of Pile

$$Q_s = (K_{sp} * q_c * d_f * A_b) / 3 + (A_s * q_s) / 6$$

F.O.S.	3	for bearing component
F.O.S.	6	for socket side resistance component

$$= 12273737 + 698720 \text{ N}$$

$$= 12972457 \text{ N}$$

$$= 12972 \text{ KN}$$

$$\text{Say } 1297 \text{ T}$$

$$\text{Total Safe Load Carrying Capacity Of Pile } Q_s = 1297 \text{ T}$$





## (A-2) VERTICAL LOAD CARRYING CAPACITY

### (A) Typical Calculation for Safe Load Carrying Capacity of Pile based on Static Formula (IRC-78)

#### (1) LOAD CARRYING CAPACITY OF PILE (BH-A01)

Pile Diameter = 1.20	mtr	Pile Depth = 16.00	m
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#### For Rock

The Ultimate Load Carrying capacity

$$Q_e = R_e + R_{ef} \\ = (K_{sp} * q_c * d_f * A_b) + (A_s * q_s)$$

$R_e$  = Ultimate end bearing

$R_{ef}$  = Ultimate side socket shear

Type of Discontinuity	Ksp
Very Wide	0.40
Wide	0.25
Moderately wide	0.10

$K_{sp}$  = An Empirical Coefficient = 0.400

$q_c$  = Average uniaxial compressive strength at tip level = 73.5 Mpa

D = Diameter of Pile = 1200.00 mm

$A_b$  = Cross sectional area of base of pile = 1131428.57 mm<sup>2</sup>

l = Length of Socket = 600.0 mm

$d_f$  = Depth Factor = 1.2

$A_s$  = surface area of socket = 2262857 mm<sup>2</sup>

$q_s$  = ultimate shear along the socket = 1.929 Mpa

#### Safe Load Carrying Capacity of Pile

$$Q_s = (K_{sp} * q_c * d_f * A_b) / 3 + (A_s * q_s) / 6$$

F.O.S.	3	for bearing component
F.O.S.	6	for socket side resistance component

$$= 13305600 + 727498 \text{ N}$$

$$= 14033098 \text{ N}$$

$$= 14033 \text{ KN}$$

$$\text{Say } 1403 \text{ T}$$

$$\text{Total Safe Load Carrying Capacity Of Pile } Q_s = 1403 \text{ T}$$





## (A-2) VERTICAL LOAD CARRYING CAPACITY

### (A) Typical Calculation for Safe Load Carrying Capacity of Pile based on Static Formula (IRC-78)

#### (1) LOAD CARRYING CAPACITY OF PILE (BH-A01)

Pile Diameter = 1.00	mtr	Pile Depth = 12.00	m
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#### For Rock

The Ultimate Load Carrying capacity

$$Q_e = R_e + R_{ef} \\ = (K_{sp} * q_c * d_f * A_b) + (A_s * q_s)$$

$R_e$  = Ultimate end bearing

$R_{ef}$  = Ultimate side socket shear

Type of Discontinuity	Ksp
Very Wide	0.40
Wide	0.25
Moderately wide	0.10

$K_{sp}$  = An Empirical Coefficient = 0.40

$q_c$  = Average uniaxial compressive strength at tip level = 58.5 Mpa

D = Diameter of Pile = 1000.00 mm

$A_b$  = Cross sectional area of base of pile = 785714.29 mm<sup>2</sup>

l = Length of Socket = 500.0 mm

$d_f$  = Depth Factor = 1.2

$A_s$  = surface area of socket = 1571429 mm<sup>2</sup>

$q_s$  = ultimate shear along the socket = 1.721 Mpa

#### Safe Load Carrying Capacity of Pile

$$Q_s = (K_{sp} * q_c * d_f * A_b) / 3 + (A_s * q_s) / 6$$

F.O.S. 3 for bearing component  
F.O.S. 6 for socket side resistance component

$$= 0 + 450717 \text{ N}$$

$$= 450717 \text{ N}$$

$$= 451 \text{ KN}$$

$$\text{Say } 45 \text{ T}$$

$$\text{Total Safe Load Carrying Capacity Of Pile } Q_s = 45 \text{ T}$$





## (A-2) VERTICAL LOAD CARRYING CAPACITY

### (A) Typical Calculation for Safe Load Carrying Capacity of Pile based on Static Formula (IRC-78)

#### (1) LOAD CARRYING CAPACITY OF PILE (BH-A01)

Pile Diameter = 1.00	mtr	Pile Depth = 14.00	m
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#### For Rock

The Ultimate Load Carrying capacity

$$Q_e = R_e + R_{ef} \\ = (K_{sp} * q_c * d_f * A_b) + (A_s * q_s)$$

$R_e$  = Ultimate end bearing

$R_{ef}$  = Ultimate side socket shear

Type of Discontinuity	Ksp
Very Wide	0.40
Wide	0.25
Moderately wide	0.10

$K_{sp}$  = An Empirical Coefficient = 0.40

$q_c$  = Average uniaxial compressive strength at tip level = 67.8 Mpa

D = Diameter of Pile = 1000.00 mm

$A_b$  = Cross sectional area of base of pile = 785714.29 mm<sup>2</sup>

l = Length of Socket = 500.0 mm

$d_f$  = Depth Factor = 1.2

$A_s$  = surface area of socket = 1571429 mm<sup>2</sup>

$q_s$  = ultimate shear along the socket = 1.853 Mpa

#### Safe Load Carrying Capacity of Pile

$$Q_s = (K_{sp} * q_c * d_f * A_b) / 3 + (A_s * q_s) / 6$$

F.O.S. 3 for bearing component  
F.O.S. 6 for socket side resistance component

$$= 0 + 485222 \text{ N}$$

$$= 485222 \text{ N}$$

$$= 485 \text{ KN}$$

$$\text{Say } 49 \text{ T}$$

$$\text{Total Safe Load Carrying Capacity Of Pile } Q_s = 49 \text{ T}$$





## (A-2) VERTICAL LOAD CARRYING CAPACITY

### (A) Typical Calculation for Safe Load Carrying Capacity of Pile based on Static Formula (IRC-78)

#### (1) LOAD CARRYING CAPACITY OF PILE (BH-A01)

Pile Diameter = 1.00	mtr	Pile Depth = 16.00	m
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#### For Rock

The Ultimate Load Carrying capacity

$$Q_e = R_e + R_{ef} \\ = (K_{sp} * q_c * d_f * A_b) + (A_s * q_s)$$

$R_e$  = Ultimate end bearing

$R_{ef}$  = Ultimate side socket shear

Type of Discontinuity	Ksp
Very Wide	0.40
Wide	0.25
Moderately wide	0.10

$K_{sp}$  = An Empirical Coefficient = 0.40

$q_c$  = Average uniaxial compressive strength at tip level = 73.5 Mpa

D = Diameter of Pile = 1000.00 mm

$A_b$  = Cross sectional area of base of pile = 785714.29 mm<sup>2</sup>

l = Length of Socket = 500.0 mm

$d_f$  = Depth Factor = 1.2

$A_s$  = surface area of socket = 1571429 mm<sup>2</sup>

$q_s$  = ultimate shear along the socket = 1.929 Mpa

#### Safe Load Carrying Capacity of Pile

$$Q_s = (K_{sp} * q_c * d_f * A_b) / 3 + (A_s * q_s) / 6$$

F.O.S. 3 for bearing component  
F.O.S. 6 for socket side resistance component

$$= 0 + 505207 \text{ N}$$

$$= 505207 \text{ N}$$

$$= 505 \text{ KN}$$

$$\text{Say } 51 \text{ T}$$

$$\text{Total Safe Load Carrying Capacity Of Pile } Q_s = 51 \text{ T}$$





## (A-2) VERTICAL LOAD CARRYING CAPACITY

### (A) Typical Calculation for Safe Load Carrying Capacity of Pile based on Static Formula (IRC-78)

#### (1) LOAD CARRYING CAPACITY OF PILE (BH-A01)

Pile Diameter = 1.20	mtr	Pile Depth = 12.00	m
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#### For Rock

The Ultimate Load Carrying capacity

$$Q_e = R_e + R_{ef} \\ = (K_{sp} * q_c * d_f * A_b) + (A_s * q_s)$$

$R_e$  = Ultimate end bearing

$R_{ef}$  = Ultimate side socket shear

Type of Discontinuity	Ksp
Very Wide	0.40
Wide	0.25
Moderately wide	0.10

$K_{sp}$  = An Empirical Coefficient = 0.40

$q_c$  = Average uniaxial compressive strength at tip level = 58.5 Mpa

D = Diameter of Pile = 1200.00 mm

$A_b$  = Cross sectional area of base of pile = 1131428.57 mm<sup>2</sup>

l = Length of Socket = 600.0 mm

$d_f$  = Depth Factor = 1.2

$A_s$  = surface area of socket = 2262857 mm<sup>2</sup>

$q_s$  = ultimate shear along the socket = 1.721 Mpa

#### Safe Load Carrying Capacity of Pile

$$Q_s = (K_{sp} * q_c * d_f * A_b) / 3 + (A_s * q_s) / 6$$

F.O.S.	3	for bearing component
F.O.S.	6	for socket side resistance component

$$= 0 + 649032 \text{ N}$$

$$= 649032 \text{ N}$$

$$= 649 \text{ KN}$$

$$\text{Say } 65 \text{ T}$$

$$\text{Total Safe Load Carrying Capacity Of Pile } Q_s = 65 \text{ T}$$





## (A-2) VERTICAL LOAD CARRYING CAPACITY

### (A) Typical Calculation for Safe Load Carrying Capacity of Pile based on Static Formula (IRC-78)

#### (1) LOAD CARRYING CAPACITY OF PILE (BH-A01)

Pile Diameter = 1.20	mtr	Pile Depth = 14.00	m
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#### For Rock

The Ultimate Load Carrying capacity

$$Q_e = R_e + R_{ef} \\ = (K_{sp} * q_c * d_f * A_b) + (A_s * q_s)$$

$R_e$  = Ultimate end bearing

$R_{ef}$  = Ultimate side socket shear

Type of Discontinuity	Ksp
Very Wide	0.40
Wide	0.25
Moderately wide	0.10

$K_{sp}$  = An Empirical Coefficient = 0.40

$q_c$  = Average uniaxial compressive strength at tip level = 67.8 Mpa

D = Diameter of Pile = 1200.00 mm

$A_b$  = Cross sectional area of base of pile = 1131428.57 mm<sup>2</sup>

l = Length of Socket = 600.0 mm

$d_f$  = Depth Factor = 1.2

$A_s$  = surface area of socket = 2262857 mm<sup>2</sup>

$q_s$  = ultimate shear along the socket = 1.853 Mpa

#### Safe Load Carrying Capacity of Pile

$$Q_s = \frac{(K_{sp} * q_c * d_f * A_b)}{3} + \frac{(A_s * q_s)}{6}$$

F.O.S. 3 for bearing component  
F.O.S. 6 for socket side resistance component

$$= 0 + 698720 \text{ N}$$

$$= 698720 \text{ N}$$

$$= 699 \text{ KN}$$

$$\text{Say } 70 \text{ T}$$

$$\text{Total Safe Load Carrying Capacity Of Pile } Q_s = 70 \text{ T}$$





## (A-2) VERTICAL LOAD CARRYING CAPACITY

### (A) Typical Calculation for Safe Load Carrying Capacity of Pile based on Static Formula (IRC-78)

#### (1) LOAD CARRYING CAPACITY OF PILE (BH-A01)

Pile Diameter = 1.20	mtr	Pile Depth = 16.00	m
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#### For Rock

The Ultimate Load Carrying capacity

$$Q_e = R_e + R_{ef} \\ = (K_{sp} * q_c * d_f * A_b) + (A_s * q_s)$$

$R_e$  = Ultimate end bearing

$R_{ef}$  = Ultimate side socket shear

Type of Discontinuity	Ksp
Very Wide	0.40
Wide	0.25
Moderately wide	0.10

$K_{sp}$  = An Empirical Coefficient = 0.40

$q_c$  = Average uniaxial compressive strength at tip level = 73.5 Mpa

D = Diameter of Pile = 1200.00 mm

$A_b$  = Cross sectional area of base of pile = 1131428.57 mm<sup>2</sup>

l = Length of Socket = 600.0 mm

$d_f$  = Depth Factor = 1.2

$A_s$  = surface area of socket = 2262857 mm<sup>2</sup>

$q_s$  = ultimate shear along the socket = 1.929 Mpa

#### Safe Load Carrying Capacity of Pile

$$Q_s = (K_{sp} * q_c * d_f * A_b) / 3 + (A_s * q_s) / 6$$

F.O.S.	3	for bearing component
F.O.S.	6	for socket side resistance component

$$= 0 + 727498 \text{ N}$$

$$= 727498 \text{ N}$$

$$= 727 \text{ KN}$$

$$\text{Say } 73 \text{ T}$$

$$\text{Total Safe Load Carrying Capacity Of Pile } Q_s = 73 \text{ T}$$





**(A-1) VERTICAL LOAD CARRYING CAPACITY****BH-P55****(A) Typical Calculation for Safe Load Carrying Capacity of Pile based on Static Formula (IRC-78)****(1) LOAD CARRYING CAPACITY OF PILE**

Pile Diameter	1.00	mtr	Pile Depth	=	12.00	m
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Here  $(CR + RQD) / 2$  is less than 30 % So, Method-2 is be used.

**For Rock**

The Ulitmate Load Carrying capacity

$$\begin{aligned} Q_u &= R_e + R_{af} \\ &= C_{u.b.} \cdot N_c \cdot A_b + C_{u.s.} \cdot A_s \\ &= 4737857 + 6317143 \\ Q_{allow} &= (R_e/3) + (R_{af}/6) \\ &= 1579286 + 1052857 \\ &= 2632143 \text{ N} \\ &= 2632.143 \text{ KN} \\ &= 263.2143 \text{ T} \end{aligned}$$

**Total Safe Load Carrying Capacity Of Pile Qs = 263 T**

$R_e$  = Ultimate end bearing

$R_{af}$  = Ultimate side socket shear

D= Diameter of Pile =

1000.00 mm

L = Length of Socket

3000.00 mm

$C_{u.b.}$  = Average Shear Strength

0.67 mpa

$N_c$  =

9

$A_b$  = Cross sectional area of base of pile

785714.29 mm<sup>2</sup>

$C_{u.s.}$  = Ultimate Shear Strength along Socket length

0.67 mpa

for M-35 Grade concrete

$A_s$  = Surface area of socket

9428571.429 mm<sup>2</sup>





**(A-1) VERTICAL LOAD CARRYING CAPACITY****BH-P55****(A) Typical Calculation for Safe Load Carrying Capacity of Pile based on Static Formula (IRC-78)****(1) LOAD CARRYING CAPACITY OF PILE**

Pile Diameter	1.00	mtr	Pile Depth	=	14.00	m
---------------	------	-----	------------	---	-------	---

Here  $(CR + RQD) / 2$  is less than 30 % So, Method-2 is be used.

**For Rock**

The Ulitmate Load Carrying capacity

$$\begin{aligned}
 Q_u &= R_e + R_{af} \\
 &= C_{u.b.} \cdot N_c \cdot A_b + C_{u.s.} \cdot A_s \\
 &= 6222857 + 8297143 \\
 Q_{allow} &= (R_e/3) + (R_{af}/6) \\
 &= 2074286 + 1382857 \\
 &= 3457143 \quad \text{N} \\
 &= 3457.143 \quad \text{KN} \\
 &= 345.7143 \quad \text{T}
 \end{aligned}$$

**Total Safe Load Carrying Capacity Of Pile Qs = 346 T**

$R_e$  = Ultimate end bearing

$R_{af}$  = Ultimate side socket shear

D= Diameter of Pile =

1000.00 mm

L = Length of Socket

3000.00 mm

$C_{u.b.}$  = Average Shear Strength

0.88 mpa

$N_c$  =

9

$A_b$  = Cross sectional area of base of pile

785714.29 mm<sup>2</sup>

$C_{u.s.}$  = Ultimate Shear Strength along Socket length

0.88 mpa

for M-35 Grade concrete

$A_s$  = Surface area of socket

9428571.429 mm<sup>2</sup>





**(A-1) VERTICAL LOAD CARRYING CAPACITY****BH-P55****(A) Typical Calculation for Safe Load Carrying Capacity of Pile based on Static Formula (IRC-78)****(1) LOAD CARRYING CAPACITY OF PILE**

Pile Diameter	1.00	mtr	Pile Depth	=	16.00	m
---------------	------	-----	------------	---	-------	---

Here  $(CR + RQD) / 2$  is less than 30 % So, Method-2 is be used.

**For Rock**

The Ulitmate Load Carrying capacity

$$Q_u = R_e + R_{af}$$

$$= C_{u.b.} \cdot N_c \cdot A_b + C_{u.s.} \cdot A_s$$

$$= 7637143 \quad + \quad 10182857$$

$$Q_{allow} = (R_e/3) + (R_{af}/6)$$

$$= 2545714 \quad + \quad 1697143$$

$$= 4242857 \quad N$$

$$= 4242.857 \quad KN$$

$$= 424.2857 \quad T$$

**Total Safe Load Carrying Capacity Of Pile Qs = 424 T**

$R_e$  = Ultimate end bearing

$R_{af}$  = Ultimate side socket shear

D= Diameter of Pile = 1000.00 mm

L = Length of Socket 3000.00 mm

$C_{u.b.}$  = Average Shear Strength 1.08 mpa

$N_c$  = 9

$A_b$  = Cross sectional area of base of pile 785714.29 mm<sup>2</sup>

$C_{u.s.}$  = Ultimate Shear Strength along Socket length 1.08 mpa

for M-35 Grade concrete

$A_s$  = Surface area of socket 9428571.429 mm<sup>2</sup>





**(A-1) VERTICAL LOAD CARRYING CAPACITY****BH-P55****(A) Typical Calculation for Safe Load Carrying Capacity of Pile based on Static Formula (IRC-78)****(1) LOAD CARRYING CAPACITY OF PILE**

Pile Diameter	1.00	mtr	Pile Depth	=	12.00	m
---------------	------	-----	------------	---	-------	---

Here  $(CR + RQD) / 2$  is less than 30 % So, Method-2 is be used.

**For Rock**

The Ulitmate Load Carrying capacity

$$\begin{aligned}
 Q_u &= R_e + R_{af} \\
 &= C_{u.b.} \cdot N_c \cdot A_b + C_{u.s.} \cdot A_s \\
 &= 0 + 6317143 \\
 Q_{allow} &= (R_e/3) + (R_{af}/6) \\
 &= 0 + 1052857 \\
 &= 1052857 \quad \text{N} \\
 &= 1052.857 \quad \text{KN} \\
 &= 105.2857 \quad \text{T}
 \end{aligned}$$

**Total Safe Load Carrying Capacity Of Pile  $Q_s = 105 \quad \text{T}$**

$R_e$  = Ultimate end bearing

$R_{af}$  = Ultimate side socket shear

D= Diameter of Pile =

1000.00 mm

L = Length of Socket

3000.00 mm

$C_{u.b.}$  = Average Shear Strength

0.67 mpa

$N_c$  =

9

$A_b$  = Cross sectional area of base of pile

785714.29 mm<sup>2</sup>

$C_{u.s.}$  = Ultimate Shear Strength along Socket length

0.67 mpa

for M-35 Grade concrete

$A_s$  = Surface area of socket

9428571.429 mm<sup>2</sup>





**(A-1) VERTICAL LOAD CARRYING CAPACITY****BH-P55****(A) Typical Calculation for Safe Load Carrying Capacity of Pile based on Static Formula (IRC-78)****(1) LOAD CARRYING CAPACITY OF PILE**

Pile Diameter	1.00	mtr	Pile Depth	=	14.00	m
---------------	------	-----	------------	---	-------	---

Here  $(CR + RQD) / 2$  is less than 30 % So, Method-2 is be used.

**For Rock**

The Ulitmate Load Carrying capacity

$$\begin{aligned}
 Q_u &= R_e + R_{af} \\
 &= C_{u.b.} \cdot N_c \cdot A_b + C_{u.s.} \cdot A_s \\
 &= 0 + 8297143 \\
 Q_{allow} &= (R_e/3) + (R_{af}/6) \\
 &= 0 + 1382857 \\
 &= 1382857 \quad N \\
 &= 1382.857 \quad KN \\
 &= 138.2857 \quad T
 \end{aligned}$$

**Total Safe Load Carrying Capacity Of Pile  $Q_s = 138 \quad T$**

$R_e$  = Ultimate end bearing

$R_{af}$  = Ultimate side socket shear

D= Diameter of Pile =

1000.00 mm

L = Length of Socket

3000.00 mm

$C_{u.b.}$  = Average Shear Strength

0.88 mpa

$N_c$  =

9

$A_b$  = Cross sectional area of base of pile

785714.29 mm<sup>2</sup>

$C_{u.s.}$  = Ultimate Shear Strength along Socket length

0.88 mpa

for M-35 Grade concrete

$A_s$  = Surface area of socket

9428571.429 mm<sup>2</sup>





**(A-1) VERTICAL LOAD CARRYING CAPACITY****BH-P55****(A) Typical Calculation for Safe Load Carrying Capacity of Pile based on Static Formula (IRC-78)****(1) LOAD CARRYING CAPACITY OF PILE**

Pile Diameter	1.00	mtr	Pile Depth	=	16.00	m
---------------	------	-----	------------	---	-------	---

Here  $(CR + RQD) / 2$  is less than 30 % So, Method-2 is be used.

**For Rock**

The Ulitmate Load Carrying capacity

$$Q_u = R_e + R_{af}$$

$$= C_{u.b.} \cdot N_c \cdot A_b + C_{u.s.} \cdot A_s$$

$$= 0 + 10182857$$

$$Q_{allow} = (R_e/3) + (R_{af}/6)$$

$$= 0 + 1697143$$

$$= 1697143 \quad N$$

$$= 1697.143 \quad KN$$

$$= 169.7143 \quad T$$

**Total Safe Load Carrying Capacity Of Pile Qs = 170 T**

$R_e$  = Ultimate end bearing

$R_{af}$  = Ultimate side socket shear

D= Diameter of Pile =

1000.00 mm

L = Length of Socket

3000.00 mm

$C_{u.b.}$  = Average Shear Strength

1.08 mpa

$N_c$  =

9

$A_b$  = Cross sectional area of base of pile

785714.29 mm<sup>2</sup>

$C_{u.s.}$  = Ultimate Shear Strength along Socket length

1.08 mpa

for M-35 Grade concrete

$A_s$  = Surface area of socket

9428571.429 mm<sup>2</sup>





**(A-1) VERTICAL LOAD CARRYING CAPACITY****BH-P55****(A) Typical Calculation for Safe Load Carrying Capacity of Pile based on Static Formula (IRC-78)****(1) LOAD CARRYING CAPACITY OF PILE**

Pile Diameter	1.20	mtr	Pile Depth	=	12.00	m
---------------	------	-----	------------	---	-------	---

Here  $(CR + RQD) / 2$  is less than 30 % So, Method-2 is be used.

**For Rock**

The Ulitmate Load Carrying capacity

$$\begin{aligned}
 Q_u &= R_e + R_{af} \\
 &= C_{u.b.} \cdot N_c \cdot A_b + C_{u.s.} \cdot A_s \\
 &= 6822514 \quad + \quad 9096686 \\
 Q_{allow} &= (R_e/3) + (R_{af}/6) \\
 &= 2274171 \quad + \quad 1516114 \\
 &= 3790286 \quad N \\
 &= 3790.286 \quad KN \\
 &= 379.0286 \quad T
 \end{aligned}$$

**Total Safe Load Carrying Capacity Of Pile  $Q_s = 379 \quad T$**

$R_e$  = Ultimate end bearing

$R_{af}$  = Ultimate side socket shear

D= Diameter of Pile =

1200.00 mm

L = Length of Socket

3600.00 mm

$C_{u.b.}$  = Average Shear Strength

0.67 mpa

$N_c$  =

9

$A_b$  = Cross sectional area of base of pile

1131428.57 mm<sup>2</sup>

$C_{u.s.}$  = Ultimate Shear Strength along Socket length

0.67 mpa

for M-35 Grade concrete

$A_s$  = Surface area of socket

13577142.86 mm<sup>2</sup>





**(A-1) VERTICAL LOAD CARRYING CAPACITY****BH-P55****(A) Typical Calculation for Safe Load Carrying Capacity of Pile based on Static Formula (IRC-78)****(1) LOAD CARRYING CAPACITY OF PILE**

Pile Diameter	1.20	mtr	Pile Depth	=	14.00	m
---------------	------	-----	------------	---	-------	---

Here  $(CR + RQD) / 2$  is less than 30 % So, Method-2 is be used.

**For Rock**

The Ulitmate Load Carrying capacity

$$\begin{aligned}
 Q_u &= R_e + R_{af} \\
 &= C_{u.b.} \cdot N_c \cdot A_b + C_{u.s.} \cdot A_s \\
 &= 8960914 \quad + \quad 11947886 \\
 Q_{allow} &= (R_e/3) + (R_{af}/6) \\
 &= 2986971 \quad + \quad 1991314 \\
 &= 4978286 \quad N \\
 &= 4978.286 \quad KN \\
 &= 497.8286 \quad T
 \end{aligned}$$

**Total Safe Load Carrying Capacity Of Pile Qs = 498 T**

$R_e$  = Ultimate end bearing

$R_{af}$  = Ultimate side socket shear

D= Diameter of Pile =

1200.00 mm

L = Length of Socket

3600.00 mm

$C_{u.b.}$  = Average Shear Strength

0.88 mpa

$N_c$  =

9

$A_b$  = Cross sectional area of base of pile

1131428.57 mm<sup>2</sup>

$C_{u.s.}$  = Ultimate Shear Strength along Socket length

0.88 mpa

for M-35 Grade concrete

$A_s$  = Surface area of socket

13577142.86 mm<sup>2</sup>





**(A-1) VERTICAL LOAD CARRYING CAPACITY****BH-P55****(A) Typical Calculation for Safe Load Carrying Capacity of Pile based on Static Formula (IRC-78)****(1) LOAD CARRYING CAPACITY OF PILE**

Pile Diameter	1.20	mtr	Pile Depth	=	16.00	m
---------------	------	-----	------------	---	-------	---

Here  $(CR + RQD) / 2$  is less than 30 % So, Method-2 is be used.

**For Rock**

The Ulitmate Load Carrying capacity

$$\begin{aligned}
 Q_u &= R_e + R_{af} \\
 &= C_{u.b.} \cdot N_c \cdot A_b + C_{u.s.} \cdot A_s \\
 &= 10997486 \quad + \quad 14663314 \\
 Q_{allow} &= (R_e/3) + (R_{af}/6) \\
 &= 3665829 \quad + \quad 2443886 \\
 &= 6109714 \quad N \\
 &= 6109.714 \quad KN \\
 &= 610.9714 \quad T
 \end{aligned}$$

**Total Safe Load Carrying Capacity Of Pile Qs = 611 T**

$R_e$  = Ultimate end bearing

$R_{af}$  = Ultimate side socket shear

D= Diameter of Pile =

1200.00 mm

L = Length of Socket

3600.00 mm

$C_{u.b.}$  = Average Shear Strength

1.08 mpa

$N_c$  =

9

$A_b$  = Cross sectional area of base of pile

1131428.57 mm<sup>2</sup>

$C_{u.s.}$  = Ultimate Shear Strength along Socket length

1.08 mpa

for M-35 Grade concrete

$A_s$  = Surface area of socket

13577142.86 mm<sup>2</sup>





**(A-1) VERTICAL LOAD CARRYING CAPACITY****BH-P55****(A) Typical Calculation for Safe Load Carrying Capacity of Pile based on Static Formula (IRC-78)****(1) LOAD CARRYING CAPACITY OF PILE**

Pile Diameter	1.20	mtr	Pile Depth	=	12.00	m
---------------	------	-----	------------	---	-------	---

Here  $(CR + RQD) / 2$  is less than 30 % So, Method-2 is be used.

**For Rock**

The Ulitmate Load Carrying capacity

$$\begin{aligned}
 Q_u &= R_e + R_{af} \\
 &= C_{u.b.} \cdot N_c \cdot A_b + C_{u.s.} \cdot A_s \\
 &= 0 + 9096686 \\
 Q_{allow} &= (R_e/3) + (R_{af}/6) \\
 &= 0 + 1516114 \\
 &= 1516114 \quad N \\
 &= 1516.114 \quad KN \\
 &= 151.6114 \quad T
 \end{aligned}$$

**Total Safe Load Carrying Capacity Of Pile Qs = 152 T**

$R_e$  = Ultimate end bearing

$R_{af}$  = Ultimate side socket shear

D= Diameter of Pile =

1200.00 mm

L = Length of Socket

3600.00 mm

$C_{u.b.}$  = Average Shear Strength

0.67 mpa

$N_c$  =

9

$A_b$  = Cross sectional area of base of pile

1131428.57 mm<sup>2</sup>

$C_{u.s.}$  = Ultimate Shear Strength along Socket length

0.67 mpa

for M-35 Grade concrete

$A_s$  = Surface area of socket

13577142.86 mm<sup>2</sup>





**(A-1) VERTICAL LOAD CARRYING CAPACITY****BH-P55****(A) Typical Calculation for Safe Load Carrying Capacity of Pile based on Static Formula (IRC-78)****(1) LOAD CARRYING CAPACITY OF PILE**

Pile Diameter	1.20	mtr	Pile Depth	=	14.00	m
---------------	------	-----	------------	---	-------	---

Here  $(CR + RQD) / 2$  is less than 30 % So, Method-2 is be used.

**For Rock**

The Ulitmate Load Carrying capacity

$$\begin{aligned}
 Q_u &= R_e + R_{af} \\
 &= C_{u.b.} \cdot N_c \cdot A_b + C_{u.s.} \cdot A_s \\
 &= 0 + 11947886 \\
 Q_{allow} &= (R_e/3) + (R_{af}/6) \\
 &= 0 + 1991314 \\
 &= 1991314 \quad \text{N} \\
 &= 1991.314 \quad \text{KN} \\
 &= 199.1314 \quad \text{T}
 \end{aligned}$$

**Total Safe Load Carrying Capacity Of Pile  $Q_s = 199 \quad \text{T}$**

$R_e$  = Ultimate end bearing

$R_{af}$  = Ultimate side socket shear

$D$  = Diameter of Pile = 1200.00 mm

$L$  = Length of Socket 3600.00 mm

$C_{u.b.}$  = Average Shear Strength 0.88 mpa

$N_c$  = 9

$A_b$  = Cross sectional area of base of pile 1131428.57 mm<sup>2</sup>

$C_{u.s.}$  = Ultimate Shear Strength along Socket length 0.88 mpa

for M-35 Grade concrete

$A_s$  = Surface area of socket 13577142.86 mm<sup>2</sup>





**(A-1) VERTICAL LOAD CARRYING CAPACITY****BH-P55****(A) Typical Calculation for Safe Load Carrying Capacity of Pile based on Static Formula (IRC-78)****(1) LOAD CARRYING CAPACITY OF PILE**

Pile Diameter	1.20	mtr	Pile Depth	=	16.00	m
---------------	------	-----	------------	---	-------	---

Here  $(CR + RQD) / 2$  is less than 30 % So, Method-2 is be used.

**For Rock**

The Ulitmate Load Carrying capacity

$$Q_u = R_e + R_{af}$$

$$= C_{u.b.} \cdot N_c \cdot A_b + C_{u.s.} \cdot A_s$$

$$= 0 + 14663314$$

$$Q_{allow} = (R_e/3) + (R_{af}/6)$$

$$= 0 + 2443886$$

$$= 2443886 \quad N$$

$$= 2443.886 \quad KN$$

$$= 244.3886 \quad T$$

**Total Safe Load Carrying Capacity Of Pile Qs = 244 T**

$R_e$  = Ultimate end bearing

$R_{af}$  = Ultimate side socket shear

D= Diameter of Pile = 1200.00 mm

L = Length of Socket 3600.00 mm

$C_{u.b.}$  = Average Shear Strength 1.08 mpa

$N_c$  = 9

$A_b$  = Cross sectional area of base of pile 1131428.57 mm<sup>2</sup>

$C_{u.s.}$  = Ultimate Shear Strength along Socket length 1.08 mpa

for M-35 Grade concrete

$A_s$  = Surface area of socket 13577142.86 mm<sup>2</sup>

