



# **CHHATTISGARH HOUSING AND INFRASTRUCTURE DEVELOPMENT BOARD**

## **Request for Proposal**

**for**

**Selection of Developer for “Redevelopment of land  
parcel(s) of total area 5.0 acres at Kailash Nagar,  
Rajnandgaon on license basis”.**

## **RFP Document - Volume 3**

**(Project Information Memorandum cum Detailed Project Report of  
Government Facilities for redevelopment of land parcel of total area 5.0  
acres at Kailash Nagar, Rajnandgaon)**

### **CHHATTISGARH HOUSING AND INFRASTRUCTURE DEVELOPMENT BOARD**

New Bus Stand Commercial Complex, First floor

Distt- Rajnandgaon, Pin- 491441

Email id: eecghbrjn@rediffmail.com

WEBSITE: [www.cghb.gov.in](http://www.cghb.gov.in), PHONE NO. +91 9827175003

Chhattisgarh eProcurement Website: <https://eproc.cgstate.gov.in>

## 1. INTRODUCTION

### Introduction & Location – Rajnandgaon (C.G)

Rajnandgaon is a prominent city located in the state of Chhattisgarh, India. Strategically situated just 30 km from Durg, 95 km from the state capital Raipur, and approximately 200 km from Nagpur, it lies at a geographically advantageous position. Bordered by five districts – Kawardha, Bemetara, Durg, Balod, and Kanker – Rajnandgaon is also popularly known as the "Gateway Town" due to its location near the borders of Maharashtra and Madhya Pradesh. This positioning makes it an important transit and economic hub in central India.



### Demographics & Population Growth

Rajnandgaon district comprises 7 tehsils and 4 development blocks, with no designated tribal blocks. The district includes 4 urban local bodies (ULBs). As per the latest data, it has a total population of 8,84,742, comprising 4,40,216 males and 4,44,526 females, resulting in a favourable gender ratio of 1,009 females per 1,000 males. The population density stands at 273 persons per sq. km, with a decade growth rate of 19.79% in both urban and rural areas. The district also records a commendable literacy rate of 78.46%.

### Economy & Industries

Rajnandgaon boasts a diverse and growing economy, driven by both natural resources and industrial sectors. The district is rich in minerals such as Limestone, China clay, Red-Geru, Quartz, Quartz light, White clay, and rubber-moulding sand. The local economy is also supported by agro-based industries, readymade garment manufacturing, wooden furniture production, and metal-based engineering units. Small and medium-scale enterprises focusing on repairing, servicing, and light manufacturing play a key role in employment and economic contribution.

Source - [Demography | District Rajnandgaon, Govt of Chhattisgarh | India](#)

## 2. FEATURES OF THE STUDY AREA

### 2.1 City Connectivity and Linkages



In terms of regional connectivity, the site lies just 30 km from Durg city and 75 km from the state capital, Raipur, offering direct access to major urban hubs in Chhattisgarh. The nearest airport, located in Raipur, is approximately 87 km away, ensuring air connectivity for administrative and commercial purposes.

Locally, the site is highly accessible as well. The Rajnandgaon Railway Station is only 1.2 km from the site, enabling quick and convenient travel by rail. The new bus stand is situated at 1.9 km, providing excellent access to regional and intercity road transport. Furthermore, the site's location on the main road enhances its visibility and accessibility, making it ideal for both government facilities and mixed-use development.

This strategic positioning ensures that the redevelopment project will benefit from robust transportation links, promoting both residential convenience and commercial viability.

### 2.2 Redevelopment Site Location

The proposed redevelopment land in Rajnandgaon is exceptionally well-connected, making it a prime location for integrated development. The site is situated directly along National Highway 53 (NH-53). And also site is surrounded by roads from all sides

- Road connectivity: NH-53 Road is in front & 18m wide Gaurav path is beside
- Rail connectivity: 1.2km away (Rajnandgaon railway station)
- Air connectivity: 87km away (Raipur airport)



## 2.3 Site appreciation

### 2.3.1. Physical Condition

Site physical conditions	
Site location and area	
Site location	Kailash Nagar, Jal Sansadhan Vibhag Office, beside Old Camp Office, Rajnandgaon (C.G)
Longitude & Latitude	21.097858, 81.043427
Total site area	6.74-acre land
Land use pattern	Current Land Use - Mixed Land Use (Residential + Commercial)
Existing structures	29 Residential & 1 unit office building of Irrigation Department and 11 Residential & Commercial units of PWD Department
Site morphology	
Type of land	Plain Terrain
Soil nature	01 - Black Cotton (12ton/sqm SBC) 02 - Laterite Soil (20ton/sqm SBC) 03 - Murrum Soil (17ton/sqm SBC)
Water	Nigam Water Supply (Overhead)
Power availability	Yes, Overhead
Site neighbourhood	
Immediate vicinity	<ul style="list-style-type: none"> <li><b>Prime Location:</b> Situated in the heart of the city, the site offers exceptional connectivity and high visibility.</li> <li><b>Road Accessibility:</b> Direct frontage along National Highway NH-53 with</li> </ul>

	<p>Gaurav Path Road running adjacent to the site.</p> <ul style="list-style-type: none"> <li>• <b>Surrounding Developments:</b> Well-developed vicinity with prominent commercial and government establishments, including multiple offices &amp; commercial activities.</li> <li>• <b>Proximity to Landmarks:</b> Close to major transport hubs like the railway station and recreational attractions such as Indra Sarovar and Rani Sagar Chowpatty.</li> </ul>
Approach road	<p>NH-53 45M wide is in front Gaurav path is beside 18m wide Also, site is surround from road all side</p>

### 2.3.2. Site Surrounding images



NH - 53 road is in front



Gaurav path road beside



New bus stand 1.9 km away



Railway station 1.2 km away



Back approach road

Right side corner road

### 3. GOVERNMENT FACILITIES

#### 3.1 Existing Government Facilities

The redevelopment site currently houses 29 residential units and 1 office building of the Irrigation Department, along with 11 residential and commercial units of the PWD Department. These structures are very old and in a severely deteriorated condition, making them highly suitable for redevelopment under current government schemes. Despite the poor state of the buildings, residents continue to occupy the quarters, and the office of the Jal Sansadhan Vibhag (Water Resources Department) is still operational from the premises.

#### 3.2 Proposed Government Facilities

A total of 1.74 acres of land has been earmarked for the development of GAD quarters and the Irrigation Department (WRD) office within the proposed redevelopment site.

The main entry for the new GAD quarters is planned from the east-facing side of the plot, featuring a 9.0-meter-wide driveway that provides smooth vehicular access. Upon entering the site, a dedicated parking area has been strategically placed on the left side, reserved exclusively for the residents and staff of the GAD quarters.

Adjacent to the parking zone, provision has been made for a small existing electrical sub-station, ensuring uninterrupted power supply to the complex. Moving further inside, an organized open garden space has been planned to enhance the living environment and provide recreational space for residents.

In addition, a dedicated area has been purposefully left vacant for future expansion or construction, ensuring long-term adaptability of the site. The entire development is efficiently encircled by a 7.5-meter-wide internal circulation road, facilitating smooth movement of vehicles and pedestrians throughout the premises.

The residential quarters are planned as S+6 structures, comprising G-Type and H-Type quarters to accommodate various government staff. The proposed WRD (Water Resources Department) office building is designed as a S+3 structure, providing ample space for departmental operations.

**3.3 Area Statement (Project Structures)**

S.no	Spaces	Area in acres
01	Total Land Area	6.74 acre
02	GAD Quarter Area	1.74 acre
03	Compensatory Land Parcel	5.0 acre

S.no	Govt. Facilities	Unit area	Total units	Total area sqm/floor	Total B.U area (s+6)
01	G-Type Quarter	87.50	4	350	2100

NOTE - total 24 units of G-type are proposed

S.no	Govt. Facilities	Unit area	Total units	Total area sqm/floor	Total B.U area (s+6)
02	H-Type Quarter	56.19	4	224.76	1348.56

NOTE - total 24 units of H-type are proposed

S.no	Govt. Facilities	Total plot area	G.F area sqm	F.F area sqm	Total B.U area sqm
03	E-Type Quarter	450	160	86	246

NOTE - Only 2 plots are proposed for E-Type duplex house

S.no	Govt. Facilities	Floor area	Total floor	Total area sqm	Super B.U area sqm
04	WRD office	364.46	03	1093.38	1108.59

NOTE - Single office building only has floor not units

**4. LAND DETAILS & SOME RELATED INFORMATION**

- **Land Use status:** Land Use changed to Mixed Land Use
- **Permissible FAR:** As per TNCP guidelines FAR is 2.0
- **Khasra No. & Map:** Khasra No. 907/11 - 0.8050 ha, Khasra No. 907/13 - 0.1620 ha, Khasra No. 907/14 - 0.2350 ha, Khasra No. 907/16 - 0.4860 ha, Khasra No. 126/2 - 0.3360 ha, Total Land Area: 5.00 acres
- **Nazari Naksha:** Yes, Dated - 08/09/2021
- **NOC:** From C.S.P.C.D.L, From B.S.N.L, From Nagar Nigam, From W.R.D

NOTE- All floor plans including master plan and GAD quarter floor plans with detailed estimate and NOC letters are attached in annexure part.

## 5. ABOUT REDEVELOPMENT & CONCLUSION

The remaining 5.00 acres of prime land presents a valuable opportunity for high-impact, revenue-generating development that also serves public needs. The key expectations from its redevelopment include:

1. **Optimal Land Utilization** - The project should maximize the site's potential through efficient planning, ensuring that built-up spaces, open areas, parking, and green zones are well-balanced.
2. **Revenue Generation** - Development should focus on facilities that have strong market demand and can yield sustained income, such as commercial complexes, mid-rise office buildings, premium retail spaces, or well-planned residential units.
3. **Public-Oriented Amenities** - The design should incorporate elements that attract public footfall and benefit the community, such as shopping arcades, food courts, co-working hubs, or recreational areas.
4. **Architectural Quality** - The development should be modern, aesthetically appealing, and aligned with urban design guidelines, enhancing the overall image of the locality.
5. **Sustainability and Efficiency** - Incorporate energy-efficient systems, rainwater harvesting, and landscaped open spaces to promote environmental responsibility.
6. **Flexible Usage Options** - The site could be designed for mixed-use development—for example, combining commercial spaces on lower floors with residential units or serviced apartments above.
7. **Market-Driven Design** - The developer should carry out detailed surveys and feasibility studies to determine the most profitable and suitable use, considering the proximity of the proposed GAD quarters and the site's connectivity.

***ANNEXURE 1***  
***(Detailed Cost Estimate)***

**DETAILED ESTIMATE FOR THE CONSTRUCTIONS OF GAD COLONY/OFFICES UNDER REDEVELOPMENT YOJANA AT CAMP OFFICE RAJNANDGAON (C.G.**

**GENERAL ABSTRACT (GAD AREA)**

S. No.	PARTICULAR	NO. OF BLOCKS	UNIT	AMOUNT
<b>A</b>	<b>CIVIL WORK</b>			
<b>1</b>	<b>WRD Office Building (S+3) (6 UNITS)</b>	<b>1</b>		
i)	Civil Work		Rs.	26231975.38
ii)	Sanitary Work		Rs.	2049677.00
iii)	Internal Electrification		Rs.	9335728.00
<b>2</b>	<b>G-Type 2 BHK Apartment (S+6) (24UNITS)</b>	<b>1</b>		
i)	Civil Work		Rs.	42918282.35
ii)	Sanitary Work		Rs.	3533984.00
iii)	Internal Electrification		Rs.	3315744.00
	LIFT		Rs.	3162273.00
<b>3</b>	<b>H-Type 1 BHK Apartment (S+6) (24UNITS)</b>	<b>1</b>		
i)	Civil Work		Rs.	30707973.21
ii)	Sanitary Work		Rs.	2433396.00
iii)	Internal Electrification		Rs.	2537332.00
	LIFT		Rs.	3162273.00
<b>4</b>	<b>E-Type 4 BHK Bungalow</b>	<b>2</b>		
i)	Civil Work		Rs.	9046138.00
ii)	Sanitary Work		Rs.	814152.00
iii)	Internal Electrification		Rs.	449770.00
		<b>TOTAL A</b>		<b>139698697.94</b>
<b>B</b>	<b>INFRASTRUCTURE WORK</b>			
1	MAIN ENTRANCE GATE		Rs.	2374380.00
2	OUTSIDE BOUNDARY WALL		Rs.	3221098.00
3	OPEN PARKING		Rs.	1651738.00
4	CC ROAD		Rs.	6438707.00
5	DRAIN & UTILITY DUCT		Rs.	4482253.00
6	LANDSCAPING		Rs.	2290785.00
7	BORE WELL		Rs.	431632.00
8	PUMP HOUSE		Rs.	170307.00
9	SEPTIC TANK		Rs.	948487.00
10	SEWER PIPE LINE		Rs.	3634006.00
11	SUMP WELL		Rs.	2351118.00
12	RAINWATER HARVESTING		Rs.	328704.00
13	EXTERNAL ELECTRIFICATION		Rs.	16514824.00

S. No.	PARTICULAR	NO. OF BLOCKS	UNIT	AMOUNT
14	DG FOR COMMON SERVICE OF RESIDENTIAL QUARTER		Rs.	1367559.00
15	SOLAR POWER PLANT		Rs.	2000000.00
		<b>TOTAL B</b>		<b>48205598.00</b>
	<b>TOTAL A+B</b>		<b>Rs.</b>	<b>187904295.94</b>
			total	187904295.94
	<b>OTHER EXPANSES</b>			
16	REPAIRING OF 4 OFFICE HALL AND 15 LIG HOUSE FOR SHIFTING IRRIGATION OFFICE AND RESIDENT EMPLOYEE		Rs.	2794920.00
17	GAD AREA LINE SHIFTING AND DISMENTLING		Rs.	300000.00
18	RENT OF 4 NO OFFICE HALL AND 15 LIG FOR 5 YEARS		Rs.	6000000.00
	<b>TOTAL D</b>			9094920.00
	<b>TOTAL C+D</b>			196999215.94
	<b>GRAND TOTAL</b>		<b>Rs.</b>	<b>196999215.94</b>
	<b>TO SAY (IN LACS)</b>		<b>Rs.</b>	<b>1969.99</b>

**DETAILED ESTIMATE FOR THE CONSTRUCTIONS OF GAD COLONY  
/OFFICE UNDER REDEVELOPMENT YOJANA AT KAILASH NAGAR  
RAJNANDGAON (C.G.**

**GENERAL ABSTRACT WRD OFFICE**

<b>S. No.</b>	<b>PARTICULAR</b>	<b>NO. OF BLOCKS</b>	<b>UNIT</b>	<b>AMOUNT</b>
<b>1</b>	<b>WRD Office Building (S+3)</b>			
i)	Civil Work	1	Rs.	26231975.38
ii)	Sanitary Work	1	Rs.	2049677.00
			<b>Total A</b>	<b>28281652.38</b>
iii)	Internal Electrification	1	Rs.	1430023.00
iv)	Fixtures Work	1	Rs.	3418199.00
v)	Lift	1	Rs.	2051367.00
vi)	Lightning Arrester	1	Rs.	242800.00
viii)	DG Set	1	Rs.	1367559.00
ix)	CCTV	1	Rs.	825780.00
			<b>Total B</b>	<b>9335728.00</b>
<b>Total A+B Rs. :-</b>				<b>37617380.38</b>

DETAILED ESTIMATE FOR THE CONSTRUCTIONS OF GAD COLONY /OFFICE UNDER REDEVELOPMENT YOJANA AT KAILASH NAGAR RAJNANDGAON (C.G.											
WRD OFFICE BUILDING (S+3)											
S. No.	SOR No.	Particular	No.	Measurement				Qty	Unit	Rate	Amount
				No.	L	B	D/H				
		Upto Plinth Lvl									
1	1.2	Surface dressing of the ground including removing vegetation and making up undulations and in-equalities not exceeding 15 cms in depth/ height including disposal of rubbish upto 1.5 m lift and lead upto 50m (at least 5m away from the dressed area).									
				1	22.00	25.10		552.20	Sqm	7.20	3975.84
2	1.1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits.									
	1.1.1	In all types of soil									
		Foundation		36	2.80	2.80	3.00	846.72			
								846.72	Cum	185.00	156643.20
3	1.6.1	Extra for every additional lift of 1.5 m or part there of									
		Foundation		36	2.80	2.80	1.50	423.36			
								423.36	Cum	26.50	11219.04
4	1.18	Providing and filling in plinth with sand/ Crusher dust and hard moorum under floor in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering, including dressing etc. complete.									
		Footing		36	2.80	2.80	0.15	42.34			
		Plinth filling		1	20.00	23.10	0.75	346.50			
								388.84	Cum	371.00	144258.16
5	3.1	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.									
	3.1.2	1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size).									
		Footing PCC		36	2.40	2.40	0.15	31.10			
		Base concrete		1	401.50	Sqm	0.15	60.23			
								91.33	Cum	2659.00	242843.81
6	3.3	Providing and laying design mix reinforced cement concrete with crushed graded stone aggregate 20mm nominal size using batching plant, transit mixer and concrete pump, in all works upto plinth level excluding cost of form work.									
	3.3.2	M-25 Grade									
		Footing		36	2.20	2.20	0.70	121.97			
		Column upto plinth lvl		36	0.30	0.60	2.00	12.96			
		Plinth Beam									
		X-X Direction		4	18.80	0.30	0.50	11.28			
				2	20.00	0.30	0.50	6.00			
		Y-Y Direction		12	9.40	0.30	0.50	16.92			
				6	9.50	0.30	0.50	8.55			
								177.68	Cum	4298.00	763660.04

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S. No.	SOR No.	Particular	No.	Measurement				Qty	Unit	Rate	Amount
				No.	L	B	D/H				
7	3.12	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire in foundation and plinth all complete:									
	3.12.1	Thermo-Mechanically treated bars FE 415 D		@140Kg/Cum			177.68	<b>24874.92</b>	Kg	54.50	1355683.14
8	2.1	Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:									
A	2.1.1	Foundations, footings, bases of columns plinth beam, curtain wall in any shape and size and all type of wall below plinth level.									
		Footing		36	8.80		0.70	221.76			
		Column upto plinth lvl		36	1.80		2.00	129.60			
		Plinth Beam									
		X-X Direction		4	18.80		1.30	97.76			
				2	20.00		1.30	52.00			
		Y-Y Direction		12	9.40		1.30	146.64			
				6	9.50		1.30	74.10			
								<b>721.86</b>	Sqm	139.00	100338.54
9	1.17	Filling from available excavated stuff (Excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering with a lead upto 50 M. and lift upto 1.5 M.									
		Back filling		36	11.20	0.30	3.00	362.88	Cum	65.00	23587.20
10	3.16	Making 50mm thick plinth protection of plain cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded crushed stone aggregate 20mm nominal size) over 75mm bed of dry brick ballast 40mm nominal size well rammed and consolidated and grouted with sand including finishing the top smooth.									
				1	125.00	0.60		75.00	Sqm	273.00	20475.00
11	3.13	Providing and laying damp proof course (upto 50mm thick) with plain cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded crushed stone aggregate 20mm nominal size) including form work.									
				1	125.00	0.20	0.075	1.88	Cum	4237.00	7944.38
		<b>Superstructure</b>									
12	3.3	Providing and laying design mix reinforced cement concrete with crushed graded stone aggregate 20mm nominal size using batching plant, transit mixer and concrete pump, in all works upto plinth level excluding cost of form work.									
	3.3.2	M-25 Grade									
		<b>Stilt Floor</b>									
		Column		36	0.30	0.60	3.20	20.74			
		Slab Beam									
		X-X Direction		4	18.80	0.30	0.50	11.28			
				4	20.00	0.30	0.50	12.00			
		Y-Y Direction		6	24.00	0.30	0.50	21.60			
				8	4.50	0.30	0.50	5.40			
		Stair									
		Waist Slab		2	3.80	1.50	0.125	1.43			

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S. No.	SOR No.	Particular	No.	Measurement				Qty	Unit	Rate	Amount
				No.	L	B	D/H				
		Landing		2	1.50	1.50	0.125	0.56			
		Steps		20	1.50	0.30	0.150	1.35			
		Lift		2	2.40	0.20	3.00	2.88			
				2	1.80	0.20	3.00	2.16			
		Slab		1	401.50	Sqm	0.125	50.19			
								<b>129.58</b>	Cum		
		<b>1st Floor</b>									
		Column upto slab lvl		36	0.30	0.60	3.20	20.74			
		Slab Beam									
		X-X Direction		4	18.80	0.30	0.50	11.28			
				4	20.00	0.30	0.50	12.00			
				6	5.00	0.30	0.50	4.50			
		Y-Y Direction		6	24.00	0.30	0.50	21.60			
				8	4.50	0.30	0.50	5.40			
		X-X Direction		4	18.80	0.20	0.20	3.01			
				4	20.00	0.20	0.20	3.20			
				6	5.00	0.20	0.20	1.20			
		Y-Y Direction		8	4.40	0.20	0.20	1.41			
				2	4.50	0.20	0.20	0.36			
				8	5.40	0.20	0.20	1.73			
		Chhajja		13	2.20	0.60	0.10	1.72			
				2	2.00	0.60	0.10	0.24			
				2	1.15	0.60	0.10	0.14			
		Waist Slab		2	3.80	1.50	0.125	1.43			
		Landing		2	1.50	1.50	0.125	0.56			
		Steps		20	1.50	0.30	0.150	1.35			
		Lift		2	2.40	0.20	3.00	2.88			
				2	1.80	0.20	3.00	2.16			
		Slab		1	401.50	Sqm	0.125	50.19			
		<b>1st Floor Total Qty</b>						<b>147.08</b>	Cum		
		2nd Floor Qty						147.08			
		3rd Floor Qty						147.08			
		Mumty									
		Column		6	0.30	0.60	3.20	3.46			
		Slab Beam		2	8.50	0.30	0.50	2.55			
				2	3.90	0.30	0.50	1.17			
		Mumty Slab		1	10.50	5.90	0.10	6.20			
		Column Above Roof Slab		30	0.30	0.60	0.90	4.86			
		Parapet Coping		1	125.00	0.20	0.075	1.88			
								<b>590.92</b>	Cum	4298.00	2539791.35
13	3.4	Extra for laying PCC/RCC of any grade in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth:									
		Stilt Floor Qty						129.58	Cum	97.50	12634.15
		1st Floor Total Qty						147.08	Cum	195.00	28680.41
		2nd Floor Qty						147.08	Cum	292.50	43020.61
		3rd Floor Qty						147.08	Cum	390.00	57360.81
		Mumty						18.23	Cum	487.50	8887.61
14	3.12	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire in foundation and plinth all complete:									
	3.12.1	Thermo-Mechanically treated bars FE 415 D	40Kg/Cum				590.92	<b>82729.36</b>	Kg	54.50	4508750.12
15	3.1	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.									
	3.1.4	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 40mm nominal size).									

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S. No.	SOR No.	Particular	No.	Measurement				Qty	Unit	Rate	Amount
				No.	L	B	D/H				
		Slab Grading		1	401.50	Sqm	0.05	20.08	Cum	3552.00	71306.40
16	2.1	Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:									
A	2.1.5	Columns, Pillars, Piers and likes- rectangular or square in shape									
		Stilt floor column		36	1.80		3.20	207.36	Sqm		
		Column		36	1.80		3.20	207.36			
		<b>1st Floor Total Qty</b>						<b>207.36</b>	Sqm		
		2nd Floor Qty						207.36			
		3rd Floor Qty						207.36			
		Mumty Column		6	1.80		3.20	34.56			
		Column Above Roof Slab		30	1.80		0.90	48.60			
								<b>912.60</b>	Sqm	297.00	271042.20
B	2.1.7	Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)									
		Stilt floor slab		1	401.50	Sqm		401.50	Sqm		
		Slab		1	401.50	Sqm		401.50			
		<b>1st Floor Total Qty</b>						<b>401.50</b>	Sqm		
		2nd Floor Qty						401.50			
		3rd Floor Qty									
		Mumty Slab		1	10.50	5.90		61.95			
								<b>1266.45</b>	Sqm	235.00	297615.75
C	2.1.8	Beams, lintels, cantilevers & walls									
		<b>Stilt floor slab beam</b>									
		X-X Direction		4	18.80		1.30	97.76			
				4	20.00		1.30	104.00			
		Y-Y Direction		6	24.00		1.30	187.20			
				8	4.50		1.30	46.80			
		Lift		4	2.40		3.00	28.80			
				4	1.80		3.00	21.60			
								<b>486.16</b>	Sqm		
		<b>1st Floor</b>									
		Slab Beam									
		X-X Direction		4	18.80		1.30	97.76			
				4	20.00		1.30	104.00			
		Y-Y Direction		6	24.00		1.30	187.20			
				8	4.50		1.30	46.80			
		Lintel Beam									
		X-X Direction		4	18.80		0.40	30.08			
				4	20.00		0.40	32.00			
		Y-Y Direction		8	4.40		0.40	14.08			
				2	4.50		0.40	3.60			
				8	5.40		0.40	17.28			
		Lift		4	2.40		3.00	28.80			
				4	1.80		3.00	21.60			
		<b>1st Floor Total Qty</b>						<b>583.20</b>	Sqm		
		2nd Floor Qty						583.20			
		3rd Floor Qty						583.20			
		Mumty Slab Beam		2	8.50		1.30	22.10			
				2	3.90		1.30	10.14			
								<b>2268.00</b>	Sqm	202.00	458136.00
D	2.1.13	Weather shade, chhajja, Cornices and mouldings									
		Chhajja		13	2.20	0.60		17.16			
				2	2.00	0.60		2.40			
				2	1.15	0.60		1.38			

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S. No.	SOR No.	Particular	No.	Measurement				Qty	Unit	Rate	Amount
				No.	L	B	D/H				
		<b>1st Floor Total Qty</b>						<b>20.94</b>	Sqm		
		2nd Floor Qty						20.94			
		3rd Floor Qty						20.94			
								<b>62.82</b>	Sqm	294.00	18469.08
E	2.1.15	Stair cases of all types excluding spiral and folded plate type, including risers and landings									
		Stilt floor stair									
		Waist Slab		2	3.80	1.50		11.40			
		Landing		2	1.50	1.50		4.50			
		sides		4	3.80		0.125	1.90			
		Risers		20	1.50	0.15		4.50			
		Treads		20	1.50		0.30	9.00			
								<b>31.30</b>	Sqm		
		Stair									
		Waist Slab		2	3.80	1.50		11.40			
		Landing		2	1.50	1.50		4.50			
		sides		4	3.80		0.125	1.90			
		Risers		20	1.50	0.15		4.50			
		Treads		20	1.50		0.30	9.00			
		<b>1st Floor Total Qty</b>						<b>31.30</b>	Sqm		
		2nd Floor Qty						31.30			
		3rd Floor Qty						31.30			
								<b>125.20</b>	Sqm	230.00	28796.00
17	4.5	Providing and laying water proofing treatment in sunken portion of WCs, bathroom, kitchen etc., by applying cement slurry mixed with water proofing cement compound consisting of following applications including surface preparation: i) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm. This layer will be allowed to air cure for 4 hours. ii) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound@ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours. The rate includes treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry.									
		Slab Area		1	401.50	Sqm		401.50			
		Mumty Slab		1	10.50	5.90		61.95			
								<b>463.45</b>	Sqm	182.00	84347.90
18	7.5	Brick work with modular fly-ash lime bricks (FaLG Bricks) confirming to IS:12894-2002 of class designation 4.0 in foundation and plinth in:									
	7.5.4	Cement Mortar 1:6 (1 cement : 6 coarse sand)									
		Wall									
		X-X Direction		2	18.80	0.20	2.50	18.80			
				4	20.00	0.20	2.50	40.00			
		Y-Y Direction		8	4.20	0.20	2.50	16.80			
				10	5.40	0.20	2.50	27.00			
				2	3.90	0.20	2.50	3.90			
		Deductions									
		D	2	1	1.50	0.20	2.40	-1.44			
		D1	2	3	1.20	0.20	2.40	-3.46			
		D2	2	3	1.00	0.20	2.40	-2.88			
		D3	2	1	0.90	0.20	2.40	-0.86			

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S. No.	SOR No.	Particular	No.	Measurement				Qty	Unit	Rate	Amount
				No.	L	B	D/H				
		D4	2	6	0.75	0.20	2.10	-3.78			
		W1	2	6	1.80	0.20	1.65	-7.13			
		KW	2	1	1.80	0.20	1.20	-0.86			
		V1	2	6	0.75	0.20	0.60	-1.08			
		<b>1st Floor Total Qty</b>						<b>85.01</b>	Cum		
		2nd Floor Qty						85.01			
		3rd Floor Qty						85.01			
		Mumty Wall	2	8.05	0.20	2.50	8.05				
			2	3.80	0.20	2.50	3.80				
		Parapet Wall	1	125.00	0.20	0.90	22.50				
								<b>289.37</b>	Cum	3263.00	944227.36
19	7.6	Extra for brick work in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth:									
		1st Floor Total Qty						85.01	Cum	242.00	20571.94
		2nd Floor Qty						85.01	Cum	363.00	30857.90
		3rd Floor Qty						85.01	Cum	484.00	41143.87
		Mumty Wall						34.35	Cum	605.00	20781.75
20	7.11	Half brick thick brick masonry with fly-ash lime bricks (FaLG Bricks) confirming to IS:12894-2002 of class designation 4.0 in superstructure above plinth level upto plinth level:									
	7.11.2	Cement Mortar 1:4 (1 cement : 4 coarse sand)									
		Inner Wall	2	4.20		2.50	21.00				
			4	1.60		2.50	16.00				
			4	2.50		2.50	25.00				
		<b>1st Floor Total Qty</b>						<b>62.00</b>	Sqm		
		2nd Floor Qty						62.00			
		3rd Floor Qty						62.00			
								<b>186.00</b>	Sqm	382.00	71052.00
21	7.12	Extra for half brick work in superstructure above plinth level for every story or part thereof in addition to rate for upto plinth level:									
		1st Floor Total Qty						62.00	Sqm	22.00	1364.00
		2nd Floor Qty						62.00	Sqm	33.00	2046.00
		3rd Floor Qty						62.00	Sqm	44.00	2728.00
22	11.1	Providing and making 6mm thick cement plaster of mix:									
	11.1.2	In Cement mortar 1:4 (1 cement : 4 fine sand)									
		Stilt floor slab						401.50			
		Chhajja						20.94			
		Slab Area						401.50			
		Add 20% unseen or Beam Offset						84.49			
		<b>1st Floor Total Qty</b>						<b>506.93</b>	Sqm		
		2nd Floor Qty						506.93			
		3rd Floor Qty						506.93			
		Mumty Slab						61.95			
								<b>1984.23</b>	Sqm	87.00	172628.36
23	11.2	Providing and making 12mm thick cement plaster of mix:									
	11.2.3	In Cement Mortar 1:5 (1 cement : 5 fine sand)									
		<b>Stilt Floor</b>									
		Column						207.36			
		Slab beam						486.16			

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S. No.	SOR No.	Particular	No.	Measurement				Qty	Unit	Rate	Amount
				No.	L	B	D/H				
		Lift						50.40			
								<b>743.92</b>	Sqm		
		<b>1st Floor</b>									
		Wall	2	18.80		3.00		112.80			
			4	20.00		3.00		240.00			
			8	4.20		3.00		100.80			
			10	5.40		3.00		162.00			
			2	3.90		3.00		23.40			
		Inner Wall	2	4.20		3.00		25.20			
			4	1.60		3.00		19.20			
			4	2.50		3.00		30.00			
		Lift	4	2.40		3.00		28.80			
			4	1.80		3.00		21.60			
		Deductions									
		D	2	1	1.50		2.40	-7.20			
		D1	2	3	1.20		2.40	-17.28			
		D2	2	3	1.00		2.40	-14.40			
		D3	2	1	0.90		2.40	-4.32			
		D4	2	6	0.75		2.10	-18.90			
		W1	2	6	1.80		1.65	-35.64			
		KW	2	1	1.80		1.20	-4.32			
		V1	2	6	0.75		0.60	-5.40			
		<b>1st Floor Total Qty</b>						<b>656.34</b>	Sqm		
		2nd Floor Qty						656.34			
		3rd Floor Qty						656.34			
		Mumty Wall	4	8.05		3.00		96.60			
			4	3.80		3.00		45.60			
		Parapet Wall	2	125.00		0.90		225.00			
								<b>3080.14</b>	Sqm	96.50	297233.51
24	11.3	Providing and making 15mm thick cement plaster on the rough side of single or half brick wall of mix:									
	11.3.3	In Cement Mortar 1:5 (1 cement : 5 fine sand)									
		<b>1st Floor Total Qty</b>						656.34			
		2nd Floor Qty						656.34			
		3rd Floor Qty						656.34			
								<b>1969.02</b>	Sqm	113.00	222499.26
25	11.8	Providing and making 18mm thick cement plaster in two coats with under layer of 12mm thick plaster 1:5 (1 cement : 5 fine sand) and top layer of 6mm thick with cement plaster 1:3 (1 cement : 3 fine sand) finished rough with sponge									
		Outer Wall	1	125.00		3.10		387.50			
		For Elevation	12	0.80		3.10		29.76			
			6	1.00		3.10		18.60			
		<b>1st Floor Total Qty</b>						<b>435.86</b>	Sqm		
		2nd Floor Qty						435.86			
		3rd Floor Qty						435.86			
								<b>1307.58</b>	Sqm	167.00	218365.86
26	11.10	Providing and mixing in cement mortar, triangular polyester fiber Recron 3s (Anti-shrinkage Admixture) of 6 mm length of approved make like Reliance industries Ltd etc. in proportion as recommended by manufacturer. @ 125gm per bag of cement						<b>16.95</b>	kg	366.00	6202.32
27	11.40	Making grove in cement plaster while plastering upto 10 mm deep and 10 mm wide.									

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S. No.	SOR No.	Particular	No.	Measurement				Qty	Unit	Rate	Amount
				No.	L	B	D/H				
				15	86.00			1290.00	Mtr	1.30	1677.00
28	11.11	Extra for plastering of exterior walls when height exceeds 10m above ground level for every additional height of 3.0m or part thereof.									
		3rd Floor Qty						435.86	Sqm	22.50	9806.85
29	11.41	Providing and fixing chicken mesh weighting not less than 250 gms/ sqm as per IS : specification in the required width with 40mm long steel nails on vertical and horizontal surface near R.C.C. and brick walls junctions including scaffolding and all lead and lifts etc. complete before plastering upto 10mts in height.									
		Column						414.72			
		Slab Beam						532.80			
		<b>1st Floor Total Qty</b>						<b>947.52</b>	Sqm		
		2nd Floor Qty						947.52			
		3rd Floor Qty						947.52			
								<b>2842.56</b>	Sqm	86.00	244460.16
30	9.57	Providing stainless steel railing/ grill made of S.S. flats, hollow S.S. pipe or square/ rectangular sections of approved design fixing in stair case, balcony or other places with metal fasteners and stainless steel bolts etc complete.									
	9.57.2	SS Grade 304									
		Stilt Floor Stair Railing		2	3.10		1.00	6.20			
		Entrance Railing		2	1.20		1.00	2.40			
								<b>8.60</b>	Sqm		
								<b>68.80</b>	Kg		
		Stair Railing		2	3.10		1.00	6.20			
								<b>6.20</b>	Sqm		
		<b>1st Floor Total Qty</b>	8Kg/Sqm					<b>49.60</b>	Kg		
		2nd Floor Qty						49.60			
		3rd Floor Qty						49.60			
								<b>217.60</b>	Kg	525.00	114240.00
31	Ammen dment No. 04 12.79	Providing and laying DOUBLE/MULTI CHARGE (minimum 2.0 mm thick laying) VIRTRIFIED floor tiles with water absorption less then 0.05% and conforming to IS: 15622-2017 of 1st quality of approved make in all colors and shades and size mentioned below (+/- 10 mm), laid on 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including pointing the joints with white cement and matching pigments etc. complete.									
	12.79.3	Size 1000x1000 mm thickness 10 to 12 mm									
		E. E.		2	6.00	4.00		48.00			
		Store		2	2.80	3.40		19.04			
		Sub. Er.		2	6.00	4.00		48.00			
		Accountant/Operator		2	6.80	5.00		68.00			
		Waiting Area		2	5.00	5.00		50.00			
		Waiting Area Lobby		2	4.90	1.50		14.70			
		20% Extra for skirting						49.55			
		<b>1st Floor Total Qty</b>						<b>297.29</b>	Sqm		
		2nd Floor Qty						297.29			
		3rd Floor Qty						297.29			
								<b>891.86</b>	Sqm	1786.00	1592869.10

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S. No.	SOR No.	Particular	No.	Measurement				Qty	Unit	Rate	Amount
				No.	L	B	D/H				
32	Ammen dment No. 04 12.75	Providing and fixing rectified glazed ceramic wall/dado tiles of 1st quality conforming to IS : 15622-2017 of approved make, in all colours, shades on wall and dados over 12 mm thick bed of cement Mortar I :3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with matching pigment complete.									
	12.75.2	Size 300x600mm thickness 7 to 8mm									
		Wall									
		She Toilet	2	2	2.50		2.10	42.00			
			2	2	1.70		2.10	28.56			
		WC	4	2	1.20		2.10	40.32			
			4	2	1.50		2.10	50.40			
		HC Toilet	2	2	2.00		2.10	33.60			
			2	2	1.70		2.10	28.56			
		He Toilet	2	2	2.50		2.10	42.00			
			2	2	3.40		2.10	57.12			
		WC	4	2	1.20		2.10	40.32			
			4	2	1.50		2.10	50.40			
		<b>1st Floor Total Qty</b>						<b>413.28</b>	Sqm		
		2nd Floor Qty						413.28			
		3rd Floor Qty						413.28			
								<b>1239.84</b>	Sqm	850.00	1053864.00
33	Ammen dment No. 04 12.74	Providing and fixing rectified glazed ceramic Floor tiles of 1st quality conforming to IS : 15622-2017 of approved make, in all colours, shades over 20 mm thick bed of cement Mortar 1.3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with matching pigment complete.									
	12.74.3	Size 600x600mm thickness 8 to 9mm									
		Toilet Floor	2	2	2.50	1.70		17.00			
			4	2	1.20	1.50		14.40			
			2	2	2.00	1.70		13.60			
			2	2	2.50	3.40		34.00			
			4	2	1.20	1.50		14.40			
		<b>1st Floor Total Qty</b>						<b>93.40</b>	Sqm		
		2nd Floor Qty						93.40			
		3rd Floor Qty						93.40			
								<b>280.20</b>	Sqm	897.00	251339.40
34	12.9	Providing and laying ceramic glazed floor tiles conforming to IS : 15622 of approved size, make, colour, shade laid on 20 mm thick Cement Mortar 1:4 (1 cement : 4 coarse sand) including pointing the joints with white cement mixed with matching pigment etc., complete.									
		Stilt Parking						<b>480.00</b>	sqm	692.00	332160.00

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S. No.	SOR No.	Particular	No.	Measurement				Qty	Unit	Rate	Amount
				No.	L	B	D/H				
34	12.46	15 mm thick Table rubbed polished ranite stone slab in risers and treads of step skirting dado and pillars laid on 12mm (Average) thick base of cement mortar 1:3 (1 cement : 3 coarse sand) and jointed with grey cement slurry including rubbing and polishing etc. complete (single stone is to be used for risers and treads of steps and width of stone for skirting and dado shall be equal to the height of skirting & dado and length of 1.0 m).									
	12.46.2	Granite stone black									
		Stilt Floor Stair									
		Landing		2	1.50	1.50		4.50			
		Risers		20	1.50	0.15		4.50			
		Treads		20	1.50		0.30	9.00			
								<b>18.00</b>	Sqm		
		Stair									
		Landing		2	1.50	1.50		4.50			
		Risers		20	1.50	0.15		4.50			
		Treads		20	1.50		0.30	9.00			
		Corridor		1	3.80	3.90		14.82			
				1	2.40	0.90		2.16			
		<b>1st Floor Total Qty</b>						<b>34.98</b>	Sqm		
		2nd Floor Qty						34.98			
		3rd Floor Qty						34.98			
								<b>122.94</b>	Sqm	2719.00	334273.86
35	12.44	Extra for nosing in Granite stone for treads.									
		Stilt Floor Stair		20	1.50			30.00			
		1st Floor		20	1.50			30.00			
		<b>1st Floor Total Qty</b>						<b>30.00</b>	Mtr		
		2nd Floor Qty						30.00			
		3rd Floor Qty						30.00			
								<b>120.00</b>	Mtr	126.00	15120.00
36	12.65	Providing & laying 60mm thick precast interlocking concrete blocks of approved size (approx 305 sqcm) and shape/ pattern, over 40 mm thick average complete coarse sand bed with joints of 3mm thick filled by fine sand including leveling with surface vibrator, temping and sweeping etc. complete of minimum compressive strength of 250 kg/sq.cm									
	12.65.2	Pigment Coloured (rubber mould) precast interlock concrete blocks									
		Stilt Floor (Parking)						401.50	Sqm	632.00	253748.00
37	Ammen dment No. 01 12.9.3	Crazy ceramic tile flooring, with under layer 12 mm thick cement mortar 1:4 (1 cement:4 coarse sand), with joints not exceeding 5 mm, including tilling the gaps with ordinary cement mixture & mixing with synthetic polyester fibre, triangular in shape having specific gravity of 1.34 to 1.40, cross section size ranging from 10 to 40 micron & length upto 6 mm, mixing fibre @ 125 grams per 50 kg of cement in cement mortar, including providing and mixing water proofing material in mortar @ 1 kg per 50 kg of cement, all complete as per direction of Engineer-in-charge.									
		Terrace		1	401.50	Sqm		401.50	Sqm	386.00	154979.00

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S. No.	SOR No.	Particular	No.	Measurement				Qty	Unit	Rate	Amount
				No.	L	B	D/H				
38	14.13	Providing and applying 2mm thick ready mix exterior grade approved make putty (like Birla wall care, Alltek Superfine W/R of (NCL), Asian, ICI, Nerolac, J.K. wall putty) on walls to make the surface smooth and even.									
		Quantity of 6mm Plaster						1984.23			
		Quantity of 12mm Plaster						3080.14			
		Quantity of 15mm Plaster						1969.02			
								<b>7033.39</b>	Sqm	94.50	664655.73
39	14.10	Wall painting with acrylic premium emulsion (plastic) paint of required shade to give an even shade									
	14.10.1	On new work (two or more coats)									
		Quantity of 6mm Plaster						1984.23			
		Quantity of 12mm Plaster						3080.14			
								<b>5064.37</b>	Sqm	44.50	225364.64
40	14.17	Painting exterior surface with TEXTURED exterior paint of required shade as per manufacturer's specifications to give protective and decorative finish including cleaning washing of surface etc. complete with:									
	14.17.1	On new work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including priming coat of exterior primer applied @ 2.20kg/ 10 sqm									
		Quantity of 15mm Plaster						1969.02			
								<b>984.51</b>	Sqm	140.00	137831.40
41	14.12	Applying one coat of cement primer on wall surface (applied @ 0.80 litres/10 sqm) complete.									
								7033.39	Sqm	23.00	161768.06
42	10.66	Providing and fixing Acoustical Suspended Ceiling System made of GRG Glass fibre reinforced gypsum tiles with Micro look edge and size 595x595x12mm as approved by Engineer-In-charge, in true Horizontal Level Suspended on inter locking metal grid of hot dipped galvanised steel sections (galvanised @120 gsm/sqm, both side inclusive) consisting of main "T" Runner with suitably spaced joints to get required length and of size 15x32mm made from 0.30 thick (minimum) sheet, spaced at 1200mm center to center and cross "T" of size 15x32mm made of 0.30 thick (minimum) sheet, 1200 mm long spaced between main "T" at 600mm center to center to form grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 15x32mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 14x20mm and laying false ceiling tiles of approved texture in the grid, cutting/									
	10.66.2	With fully perforated 12 mm thick micro tegular edged or 10 mm thick square edged GRG false ceiling tiles.									
		E. E.		2	6.00	4.00		48.00			
		Sub. Er.		2	6.00	4.00		48.00			
		Accountant/Operator		2	6.80	5.00		68.00			
		Waiting Area		2	5.00	5.00		50.00			

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S. No.	SOR No.	Particular	No.	Measurement				Qty	Unit	Rate	Amount
				No.	L	B	D/H				
		<b>1st Floor Total Qty</b>						<b>214.00</b>	Sqm		
		2nd Floor Qty						214.00			
		3rd Floor Qty						214.00			
								<b>642.00</b>	Sqm	1290.00	828180.00
		<b>Door &amp; Window</b>									
43	8.12	Providing and fixing flush door shutters, conforming to IS : 2202 (Part-I), decorative type core of block board construction with frame of first class hard wood and well matched teak ply veneering with vertical grains or cross bands and face veneers on both faces of shutters excluding hinges.									
	8.12.2	35 mm. thick (single leaf)									
		D	2	1	1.50		2.40	7.20			
		D1	2	3	1.20		2.40	17.28			
		D2	2	3	1.00		2.40	14.40			
		D3	2	1	0.90		2.40	4.32			
		<b>1st Floor Total Qty</b>						<b>43.20</b>	Sqm		
		2nd Floor Qty						43.20			
		3rd Floor Qty						43.20			
		Mumty Door D1		1	1.20		2.40	2.88			
								<b>132.48</b>	Sqm	2005.00	265622.40
44	8.1	Providing wood work in frames of doors windows, clerestory windows and other frames wrought framed and fixed in position.									
	8.1.2	Sal, bijasal, benteak, chair, haldu									
		D	2	1	6.30	0.075	0.125	0.12			
		D1	2	3	6.00	0.075	0.125	0.34			
		D2	2	3	5.80	0.075	0.125	0.33			
		D3	2	1	5.70	0.075	0.125	0.11			
		<b>1st Floor Total Qty</b>						<b>0.89</b>	Cum		
		2nd Floor Qty						0.89			
		3rd Floor Qty						0.89			
		Mumty Door D1		1	6.00	0.075	0.125	0.06			
								<b>2.72</b>	Cum	61051.00	166211.35
45	8.8	Providing and fixing 30mm thick panelled or glazed or panelled and glazed shutter frames for doors excluding hinges and panelling. (Area of shutter to be measured without deducting panelling area)									
	8.8.1	Teak wood						43.20			
		<b>1st Floor Total Qty</b>						<b>43.20</b>	Sqm		
		2nd Floor Qty						43.20			
		3rd Floor Qty						43.20			
								<b>129.60</b>	Sqm	2256.00	292377.60
46	14.25	Providing and laying French sprit polish on new wood work after preparing the surface by rubbing down smooth with sand papers, covering the knots, if visible applying a coat of wood filler cleaning the surface applying 50 or more coats of French spirit polish till the surface gives high gloss.									
								43.20			
		<b>1st Floor Total Qty</b>						<b>43.20</b>	Sqm		
		2nd Floor Qty						43.20			
		3rd Floor Qty						43.20			
		Mumty Door D1						2.88			
								<b>132.48</b>	Sqm	143.00	18944.64

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S. No.	SOR No.	Particular	No.	Measurement				Qty	Unit	Rate	Amount
				No.	L	B	D/H				
47	8.58	Providing and fixing bright finished brass butt hinges with brass polished MS screws complete.									
	8.58.1	125x85x5.50 mm (Heavy Type)									
		D	2	1	3.00			6.00			
		D1	2	3	4.00			24.00			
		D2	2	3	4.00			24.00			
		D3	2	1	4.00			8.00			
		<b>1st Floor Total Qty</b>						<b>62.00</b>	Each		
		2nd Floor Qty						62.00			
		3rd Floor Qty						62.00			
								<b>186.00</b>	Each	437.00	81282.00
48	8.139	Providing and fixing stainless steel tower bolts (Barrel type) with necessary stainless steel screws etc complete.									
	8.139.1	250x10mm									
		D	2	1	1.00			2.00			
		D1	2	3	2.00			12.00			
		D2	2	3	2.00			12.00			
		D3	2	1	2.00			4.00			
		<b>1st Floor Total Qty</b>						<b>30.00</b>	Each		
		2nd Floor Qty						30.00			
		3rd Floor Qty						30.00			
								<b>90.00</b>	Each	97.00	8730.00
49	8.140	Providing and fixing stainless steel door handles having flap thickness 2.5mm, necessary stainless steel screws etc complete.									
	8.140.2	125 mm									
		D	2	1	1.00			2.00			
		D1	2	3	2.00			12.00			
		D2	2	3	2.00			12.00			
		D3	2	1	2.00			4.00			
		<b>1st Floor Total Qty</b>						<b>30.00</b>	Each		
		2nd Floor Qty						30.00			
		3rd Floor Qty						30.00			
								<b>90.00</b>	Each	22.50	2025.00
50	8.138	Providing and fixing S.S. door latch with 12mm rod necessary nickel plated iron nuts bolts and screws etc complete.									
	8.138.2	250mm									
		D	2	1	1.00			2.00			
		D1	2	3	2.00			12.00			
		D2	2	3	2.00			12.00			
		D3	2	1	2.00			4.00			
		<b>1st Floor Total Qty</b>						<b>30.00</b>	Each		
		2nd Floor Qty						30.00			
		3rd Floor Qty						30.00			
								<b>90.00</b>	Each	85.00	7650.00
51	8.137	Providing and fixing stainless steel sliding door bolts with 16mm rod, 2.5mm thick flap, necessary stainless steel nuts bolts and screws etc.complete									
	8.137.2	250mm									
		D	2	1	1.00			2.00			
		D1	2	3	2.00			12.00			
		D2	2	3	2.00			12.00			
		D3	2	1	2.00			4.00			
		<b>1st Floor Total Qty</b>						<b>30.00</b>	Each		
		2nd Floor Qty						30.00			
		3rd Floor Qty						30.00			
								<b>90.00</b>	Each	228.00	20520.00

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S. No.	SOR No.	Particular	No.	Measurement				Qty	Unit	Rate	Amount
				No.	L	B	D/H				
52	8.143	Providing and fixing stainless steel hanging door stopper with necessary stainless steel screws complete.									
	8.143.2	Single									
		D	2	1				2.00			
		D1	2	3				6.00			
		D2	2	3				6.00			
		D3	2	1				2.00			
		<b>1st Floor Total Qty</b>						<b>16.00</b>	Each		
		2nd Floor Qty						16.00			
		3rd Floor Qty						16.00			
								<b>48.00</b>	Each	65.00	3120.00
53	8.160	Providing and fixing expandable fasteners of specified size with necessary plastic sleeves and galvanized M.S screws including drilling holes in masonry work /CC/ R.C.C by drilling machine and making good etc complete.									
	8.160.4	50 mm long									
		D	2	1	3.00			6.00			
		D1	2	3	4.00			24.00			
		D2	2	3	4.00			24.00			
		D3	2	1	4.00			8.00			
		<b>1st Floor Total Qty</b>						<b>62.00</b>	Each		
		2nd Floor Qty						62.00			
		3rd Floor Qty						62.00			
								<b>186.00</b>	Each	30.00	5580.00
54	8.3	Providing 40x5mm iron hold fast 40cm long including fixing to frame with 10mm bolts nuts and wooden plug and embedding in Cement Concrete 1:2:4 in blocks of size 30x10x15cm.									
		D	2	1	2.00			4.00			
		D1	2	3	3.00			18.00			
		D2	2	3	3.00			18.00			
		D3	2	1	3.00			6.00			
		<b>1st Floor Total Qty</b>						<b>46.00</b>	Each		
		2nd Floor Qty						46.00			
		3rd Floor Qty						46.00			
								<b>138.00</b>	Each	72.50	10005.00
55	8.152	Providing and fixing 30mm thick factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19mm x 19mm for styles and 15x15mm for top & bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture . M.S. frame covered with 5mm thick heat moulded PVC 'C' channel of size 30mm thickness, 70mm width out of which 50mm shall be flat and 20mm shall be tapered in 45degree angle on either side forming styles; and 5mm thick, 95mm wide PVC sheet out of which 75mm shall be flat and 20mm shall be tapered in 45 degree on the inner side to form top and bottom rail and 115mm wide PVC sheet out of which 75mm shall be flat and 20mm shall be tapered on both sides to form lock rail. Top, bottom and lock rails shall be provided either side of the panel. 10mm (5mm x 2 ) thick, 20mm wide cross PVC sheet be provided as gap insert for top rail & bottom rail. paneling of 5mm thick both									

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S. No.	SOR No.	Particular	No.	Measurement				Qty	Unit	Rate	Amount
				No.	L	B	D/H				
	8.152.2	Both side Pre-laminated panel PVC door shutter									
		D4	2	6	0.75		2.10	18.90			
		<b>1st Floor Total Qty</b>						<b>18.90</b>	Sqm		
		2nd Floor Qty						18.90			
		3rd Floor Qty						18.90			
								<b>56.70</b>	Sqm	2832.00	160574.40
56	8.151	Providing and fixing factory made P.V.C. door frame of size 50x47mm with a wall thickness of 5mm, made out of extruded 5mm rigid PVC foam sheet mitred at corners and joined with 2 Nos of 150mm long brackets of 15x15mm M.S. square tube, the vertical door profiles to be reinforced with 19x19mm M.S. square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame. The door frame to be fixed to the wall using M.S. screws of 65/100mm size complete as per manufacturers specification and direction of Engineer-in-Charge.									
		D4	2	6	5.70			68.40			
		<b>1st Floor Total Qty</b>						<b>68.40</b>	Mtr		
		2nd Floor Qty						68.40			
		3rd Floor Qty						68.40			
								<b>205.20</b>	Mtr	346.00	70999.20
57	9.15	Providing and fixing M.S. grill of approved pattern made of M.S. flats or square or round bars welded to steel frame of windows etc. including applying a priming coat welded to frame with all necessary fitting complete including applying a priming of red oxide zinc chromate primer.									
		W1	2	6	1.80		1.65	35.64			
		KW	2	1	1.80		1.20	4.32			
		V1	2	6	0.75		0.60	5.40			
								<b>45.36</b>	Sqm		
		<b>1st Floor Total Qty</b>	ded @12kg/Sqm					<b>544.32</b>	Kg		
		2nd Floor Qty						544.32			
		3rd Floor Qty						544.32			
		Mumty Window W1		1	1.80		1.65	2.97			
		Duct Grill		2	2.80		10.00	56.00			
				2	2.00		10.00	40.00			
								<b>1583.52</b>			
								<b>3216.48</b>	Kg	67.50	217112.40
58	14.22	Painting on new work (two or more coats) to give an even shade with:									
	14.22.1	Satin synthetic enamel paint						45.36			
		<b>1st Floor Total Qty</b>						<b>45.36</b>	Sqm		
		2nd Floor Qty						45.36			
		3rd Floor Qty						45.36			
		Mumty Window W1		1	1.80		1.65	2.97			
								<b>139.05</b>	Sqm	55.00	7647.75

# PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S. No.	SOR No.	Particular	No.	Measurement				Qty	Unit	Rate	Amount
				No.	L	B	D/H				
59	8.166	Providing and fixing factory made uPVC white colour slidrlg glazed window above 1.50 m in height dimension comprising of uPVC multi-chambered frame with in- built roller track and sash extruded profiles duly reinforced with 1.60 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), appropriate dimension of uPVC extruded glazing beads, uPVC extruded interlocks and uPVC extruded Inline sash adaptor (if required), EPDM gasliet, wool pile, zinc alloy (white po nder coated) handle on one side of extreme panel along with zinc pJated mild steel multi point I locking leaving transmission gear with ke•as, zinc alloy (white powder coated) toucMock with hook(if required for wire mesh panel), stainless steel (SS 304 grade) body with adjustable double nylon rollers (weight bearing capacity to be 120 kg), G.I fasteners 100 x 8 mm size for									
	8.165.5	Three track three panels sliding window made of (big series) frame 116 x 45 mm & sash 46 x 62 mm both having wall thickness of 2.3+-0.2 mm and single glazing bead / double glazing bead of appropriate dimension (Area of window upto 1.75 sqm)									
		W1	2	6	1.80		1.65	35.64			
		KW	2	1	1.80		1.20	4.32			
		V1	2	6	0.75		0.60	5.40			
		<b>1st Floor Total Qty</b>						<b>45.36</b>	Sqm		
		2nd Floor Qty						45.36			
		3rd Floor Qty						45.36			
		Mumty Window W1		1	1.80		1.65	2.97			
								<b>139.05</b>	Sqm	6889.55	957991.93
60	9.59	Extra for providing and fixing reflective glass panes in aluminium door, window, ventilator shutters and partitions instead of float glass.									
	9.59.3	6 mm thickness									
		W1	2	6	1.80		1.65	35.64			
		KW	2	1	1.80		1.20	4.32			
		<b>1st Floor Total Qty</b>						<b>39.96</b>	Sqm		
		2nd Floor Qty						39.96			
		3rd Floor Qty						39.96			
		Mumty Window W1		1	1.80		1.65	2.97			
								<b>122.85</b>	Sqm	353.00	43366.05
		<b>ACP WORK</b>									
61	9.60	Designing, providing and fixing aluminium frame work made of special aluminium section on building face with M.S. angle iron brackets fixed on RCC structure with S.S. hold fasteners, including providing and fixing two sided structural adhesive tape of appropriate grade (NORTON or equivalent), on aluminium sections for fixing aluminium/ glass panel, sealing on periphery of frame work, by providing EPDM gasket, silicon weather sealant between aluminium frame and building structure including hire charges of double scaffolding complete.									
		outer wall @ 20kg per sqm	1	1	84.00		3.00	5040.00	kg	357.00	1799280.00

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S. No.	SOR No.	Particular	No.	Measurement				Qty	Unit	Rate	Amount
				No.	L	B	D/H				
62	9.61.1	Providing and fixing aluminium composite panels in approved panel sizes, thickness and shape on aluminium frame work on face of building. (Frame to be paid separately) 3mm thick									
			1	1	84		3	252	sqm	1283.00	323316.00
63	9.62	Providing and fixing laminated glass sheet of 8.76mm thickness in approved sizes on aluminium frame work on face of building. (Frame to be paid for separately)									
			1	1				252.00		2613.00	658476.00
64	9.44	Providing and fixing "NETLON insect screens" with 25mm wide Hook and loop tape all around to wooden/ aluminium/ steel windows, ventilators and the like complete.									
		All Floors Windows						139.05	sqm	278.00	38655.90
65	4.6	<b>Water Proofing</b>									
		Providing and laying water proofing treatment on roofs of slabs by applying cement slurry mixed with water proofing cement compound consisting of following applications including surface preparation: i) 1st layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm. ii) 2nd layer of Fibre glass cloth when the first layer is still green. Overlaps of joints of fibre cloth should not be less than 10 cm. iii) 3rd layer of 1.5 mm thickness consisting of slurry of cement @ 1.289 kg/sqm mixed with coarse sand @ 1.289 kg/sqm and water proofing cement compound @ 0.07 kg/sqm. This will be allowed to air cure for 4 hours followed by water curing for 48 hours. The entire treatment will be taken upto 30cm on parapet wall and tucked into groove in parapet all around. iv) 4th and final layer of brick tiling with cement mortar (which will be paid for separately)									
		Roofs and Mumty	1	1.00	20.00	24.00		480.00	sqm	283.00	135840.00
								<b>Total Rs. :-</b>			<b>24982833.69</b>
								<b>ADD FIRE FIGHTING 5%</b>			<b>1249141.68</b>
								<b>Total No. of Block :-</b>			<b>1</b>
											<b>26231975.38</b>

DETAILED ESTIMATE FOR THE CONSTRUCTIONS OF GAD COLONY /OFFICE UNDER REDEVELOPMENT YOJANA AT KAILASH NAGAR RAJNANDGAON (C.G.											
Sanitary & Water Supply of WRD Office Building (S+3)											
S. No.	SOR No.	Particular	No.	Measurement				Qty	Unit	Rate	Amount
				No.	L	B	D/H				
		Sanitary & Water Supply Work									
1	PWD order no. 65011/3	Providing and fixing Jaquar make vitreous china pedestal type Anti germ Fluoro Polymer coated wall mounted European type W.C. pan size 760x365x620mm system code CNS WH 16 with soft closing seat cover CODE WCS-7 and 7.2 litre low level slim dual flush of code CNS-02 & dual flush fitting code CNS WCF 01 PP(poly Propeline) made 80 mm thick concealed flushing cistren, flushing capacity CODE WHC-WCFI and making good the wall and floors wherever required:									
		European type W.C.	3	12				36.00	Each	10241.00	368676.00
2	PWD order no. 65011/5	Providing and fixing Jaquar make white vitreous flat back anti germ fluoro polymer coated urinal size 630x375x315mm code URS WHT-0702N with FLUSH PLATE PRS-CHR 073 with brass made prematic flush 5 valve with wal flush (decol technology 400000 operation) and also included waste pipe and coupling complete with fitting and bracket cutting and making good wall.									
		urinal	3	8				24.00	Each	13332.00	319968.00
3	PWD order no. 65011/4	Providing and fixing Jaquar make white vitreous china Anti germ Fluoro Polymer Coated Under counter Wash Basin Size 190x550x435 mm with C.I. Brackets, 15mm C.P. 32mm C.P. brass made waste Trap size 200 x 300 mm fitting and wast coupling and bottle trap code ALD 769 L 250x 190 fixtures complete including Painting of fittings and cutting and making good the wall and floors wherever required:									
		wash basin	3	16				48.00	Each	6886.00	330528.00
4	18.22	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink without drain board as per IS 13983 with C.I. brackets and stainless steel plug 40 mm including painting of fittings and brackets, cutting and making good the walls wherever required :									
	18.22.1	345x445 mm bowl depth 200 mm.									
		kitchen sink	3	2				6.00	Each	6298.00	37788.00
5	18.25	Providing and fixing flexible P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.									
	18.25.1	32 mm dia									
		wash basin	3	16				48.00			
		kitchen sink	3	2				6.00			
								54.00	Each	68.50	3699.00

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S. No.	SOR No.	Particular	No.	Measurement				Qty	Unit	Rate	Amount
				No.	L	B	D/H				
6	18.76	Providing and fixing on wall face UV stabilized Unplasticised Rigid PVC pipes (single socketed) having 3.2mm wall thickness conforming to IS : 13592 (4kg/sqcm) including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion.									
	18.76.1	75 mm dia pipe.									
		Horizontal			180.00			180.00			
		Vertical			225.00			225.00			
		vent pipe for waste water stack			140.00			140.00			
		Rain water pipe			130.00			130.00			
								<b>675.00</b>	<b>Mtr</b>	182.00	122850.00
	18.76.2	110 mm dia pipe.									
		horizontal			135.00			135.00			
		Vertical			225.00			225.00			
		for rain water pipe			170.00			170.00			
		horizontal (stilt floor)			180.00			180.00			
								<b>710.00</b>	<b>Mtr</b>	267.00	189570.00
	18.76.3	150 mm dia pipe									
								285.00	Mtr	440.00	125400.00
7	18.78	Providing and fixing UV stabilized Unplasticised -PVC pipe clips of approved design to Rigid PVC pipes by means of 50x50x50mm hard wood plugs, screwed with M.S. screws of required length including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.									
	18.78.1	75 mm		338				337.50	Each	57.00	19237.50
	18.78.2	110 mm		355				355.00	Each	61.00	21655.00
8	18.77	Providing and fixing on wall face UV stabilized Unplasticised - PVC moulded fittings/ accessories having 3.2mm wall thickness for Rigid PVC pipes conforming to IS : 13592 (heavy) jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion.									
	18.77.1	Tee/ Tee with door/ Bend 45°/ Bend 90°									
	18.77.1.1	75 mm	3	8				24.00	Each	113.00	2712.00
	18.77.1.2	110 mm	3	17				51.00	Each	154.00	7854.00
	18.77.4	Access door cap									
	18.77.4.1	75 mm	3	8				24.00	Each	49.50	1188.00
	18.77.4.2	110 mm	3	12				36.00	Each	59.00	2124.00
	18.77.5	P trap 110mmx110mm long	3	9				27.00	Each	227.00	6129.00
	18.77.6	Nahani trap 110x75mm	3	8				24.00	Each	90.50	2172.00
	18.77.7	Multi floor trap 110	3	14				42.00	Each	122.00	5124.00
	18.77.8	Plain reducing Tee 110x75mm	3	10				30.00	Each	129.00	3870.00
9	19.4	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.INTERNAL WORK - EXPOSED ON WALL									

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S. No.	SOR No.	Particular	No.	Measurement				Qty	Unit	Rate	Amount
				No.	L	B	D/H				
	19.4.1	15 mm nominal outer dia .Pipes.			155.00			155.00	Mtr	110.00	17050.00
	19.4.2	20 mm nominal outer dia .Pipes			195.00			195.00	Mtr	151.00	29445.00
	19.4.3	25 mm nominal outer dia .Pipes.			220.00			220.00	Mtr	199.00	43780.00
	19.4.4	32 mm nominal outer dia .Pipes			150.00			150.00	Mtr	271.00	40650.00
	19.4.5	40 mm nominal outer dia .Pipes			300.00			300.00	Mtr	362.00	108600.00
	19.4.6	50 mm nominal outer dia .Pipes.			125.00			125.00	Mtr	560.00	70000.00
10	19.13	Providing and fixing 15 mm nominal bore Brass bib/stop cock of approved quality and weighting not less than 400 grams):									
	19.13.1	Bib cock		25				25.00	Each	185.00	4625.00
	19.13.3	Stop cock		48				48.00	Each	237.00	11376.00
11	19.14	Providing and fixing 15 mm nominal bore C.P. brass fittings of approved make and conforming to IS:8931 including C.P. brass extension if required:									
	19.14.3	Long body bib cock (500gms)		54				54.00	Each	426.00	23004.00
	19.14.5	Two way bib cock (800 grams)		36				36.00	Each	708.00	25488.00
	19.14.7	Angle valve for basin mixer and geyser points (450 grams)		54				54.00	Each	382.00	20628.00
	19.14.1	Bottle trap set with extension pipes		54				54.00	Each	473.00	25542.00
	2										
	19.14.1	Health foscet (hand jet) with flexible connection pipe (for WC)		36				36.00	Each	774.00	27864.00
	9										
12	19.15	Providing and fixing stainless steel drain jali of approved make/quality.									
				66				66.00	Each	51.00	3366.00
13	19.16	Providing and fixing brass/ gun metal gate valve with C.I. wheel of approved quality (screwed end):									
	19.16.2	32 mm nominal bore.		4				4.00	Each	510.00	2040.00
14	19.17	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :									
	19.17.2	20 mm nominal bore		3				3.00	Each	394.00	1182.00
	19.17.3	25 mm nominal bore		6				6.00	Each	432.00	2592.00
15	19.42	Providing and placing on terrace (at all floor levels) polyethylene water storage tank ISI : 12701 marked with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank									
			3	1	1000.00			3000.00	Ltr	7.30	21900.00
										<b>Total Rs. :-</b>	<b>2049676.50</b>
										<b>To Say :-</b>	<b>2049677.00</b>

DETAILED ESTIMATE FOR THE CONSTRUCTIONS OF GAD COLONY /OFFICE UNDER REDEVELOPMENT YOJANA AT KAILASH NAGAR RAJNANDGAON (C.G.											
G-Type 2BHK (S+6)											
S. No.	SOR No.	Particular	No.	Measurement				Qty	Unit	Rate	Amount
				No.	L	B	D/H				
		Upto Plinth Lvl									
1	1.2	Surface dressing of the ground including removing vegetation and making up undulations and in-equalities not exceeding 15 cms in depth/ height including disposal of rubbish upto 1.5 m lift and lead upto 50m (at least 5m away from the dressed area).									
				1	20.80	26.00		540.80	Sqm	7.20	3893.76
2	1.1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits.									
	1.1.1	In all types of soil									
		Foundation		48	3.20	3.20	3.00	1474.56			
								1474.56	Cum	185.00	272793.60
3	1.6.1	Extra for every additional lift of 1.5 m or part there of									
		Foundation		48	3.20	3.20	1.50	737.28			
								737.28	Cum	26.50	19537.92
4	1.18	Providing and filling in plinth with sand/ Crusher dust and hard moorum under floor in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering, including dressing etc. complete.									
		Footing		48	3.20	3.20	0.15	73.73			
		Plinth filling		1	18.80	24.00	0.75	338.40			
		Ground Floor Parking		1	18.80	24.00	0.50	225.60			
								637.73	Cum	371.00	236597.09
5	3.1	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.									
	3.1.2	1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size).									
		Footing PCC		48	2.80	2.80	0.15	56.45			
		Base concrete		1	352.00	Sqm	0.15	52.80			
								109.25	Cum	2,659.00	290490.43
6	3.3	Providing and laying design mix reinforced cement concrete with crushed graded stone aggregate 20mm nominal size using batching plant, transit mixer and concrete pump, in all works upto plinth level excluding cost of form work.									
	3.3.2	M-25 Grade									
		Footing		48	2.60	2.60	0.70	227.14			
		Column upto plinth lvl		48	0.30	0.60	2.00	17.28			
		Plinth Beam									
		X-X Direction		6	21.00	0.25	0.50	15.75			
				4	7.50	0.25	0.50	3.75			
		Y-Y Direction		4	22.50	0.25	0.50	11.25			
				2	18.50	0.25	0.50	4.63			
				4	4.20	0.25	0.50	2.10			
								281.89	Cum	4,298.00	1211567.52

# PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S. No.	SOR No.	Particular	No.	Measurement				Qty	Unit	Rate	Amount
				No.	L	B	D/H				
7	3.12	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire in foundation and plinth all complete:									
	3.12.1	Thermo-Mechanically treated bars FE 415 D		@150Kg/Cum			281.89	42283.65	Kg	54.50	2304458.93
8	2.1	Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:									
A	2.1.1	Foundations, footings, bases of columns plinth beam, curtain wall in any shape and size and all type of wall below plinth level.									
		Footing	48	10.40		0.70	349.44				
		Column upto plinth lvl	48	1.80		2.00	172.80				
		Plinth Beam									
		X-X Direction	6	21.00		1.25	157.50				
			4	7.50		1.25	37.50				
		Y-Y Direction	4	22.50		1.25	112.50				
			2	18.50		1.25	46.25				
			4	4.20		1.25	21.00				
							896.99	Sqm	139.00	124681.61	
9	1.17	Filling from available excavated stuff (Excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering with a lead upto 50 M. and lift upto 1.5 M.									
		Back filling	48	12.80	0.30	3.00	552.96	Cum	65.00	35942.40	
10	3.16	Making 50mm thick plinth protection of plain cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded crushed stone aggregate 20mm nominal size) over 75mm bed of dry brick ballast 40mm nominal size well rammed and consolidated and grouted with sand including finishing the top smooth.									
			1	149.00	0.60		89.40	Sqm	273.00	24406.20	
11	3.13	Providing and laying damp proof course (upto 50mm thick) with plain cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded crushed stone aggregate 20mm nominal size) including form work.									
			1	149.00	0.20	0.075	2.24	Cum	4,237.00	9469.70	
		<b>Superstructure</b>									
12	3.3	Providing and laying design mix reinforced cement concrete with crushed graded stone aggregate 20mm nominal size using batching plant, transit mixer and concrete pump, in all works upto plinth level excluding cost of form work.									
	3.3.2	M-25 Grade									
		<b>Stilt Floor</b>									
		Column upto First Floor slab lvl	48	0.30	0.60	3.00	25.92				
		Stair									
		Waist Slab	2	4.00	1.50	0.125	1.50				
		Landing	2	1.50	1.50	0.125	0.56				
		Steps	20	1.50	0.30	0.150	1.35				
		Slab Beam									
		X-X Direction	6	21.00	0.25	0.60	18.90				

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S. No.	SOR No.	Particular	No.	Measurement				Qty	Unit	Rate	Amount
				No.	L	B	D/H				
				4	7.50	0.25	0.60	4.50			
		Y-Y Direction		4	22.50	0.25	0.60	13.50			
				2	18.50	0.25	0.60	5.55			
				4	4.20	0.25	0.60	2.52			
								<b>74.30</b>			
		<b>First Floor</b>									
		Column upto Upper Floor slab lvl		48	0.30	0.60	3.20	27.65			
		Slab Beam									
		X-X Direction		6	21.00	0.25	0.60	18.90			
				4	7.50	0.25	0.60	4.50			
		Y-Y Direction		4	22.50	0.25	0.60	13.50			
				2	18.50	0.25	0.60	5.55			
				4	4.20	0.25	0.60	2.52			
		Lintel Beam									
		X-X Direction		4	7.50	0.20	0.20	1.20			
				8	8.20	0.20	0.20	2.62			
				4	5.10	0.20	0.20	0.82			
				4	3.50	0.20	0.20	0.56			
				1	3.20	0.20	0.20	0.13			
		Y-Y Direction		4	10.20	0.20	0.20	1.63			
				4	6.40	0.20	0.20	1.02			
				4	4.20	0.20	0.20	0.67			
				4	6.80	0.20	0.20	1.09			
				4	3.20	0.20	0.20	0.51			
				4	3.50	0.20	0.20	0.56			
		Chhajja		4	1.30	0.60	0.10	0.31			
				4	2.10	0.60	0.10	0.50			
				4	1.55	0.60	0.10	0.37			
				3	1.90	0.60	0.10	0.34			
		Kitchen Platform		4	5.50	0.65	0.125	1.79			
		Stair									
		Waist Slab		2	4.00	1.50	0.125	1.50			
		Landing		2	1.50	1.50	0.125	0.56			
		Steps		20	1.50	0.30	0.150	1.35			
		Slab		1	352.00	Sqm	0.150	52.80			
								<b>142.96</b>			
		<b>First Floor Total Qty</b>						<b>142.96</b>	<b>Cum</b>		
		2nd Floor Qty						142.96			
		3Rd Floor Qty						142.96			
		4th Floor Qty						142.96			
		5th Floor Qty						142.96			
		6th Floor Qty						142.96			
								142.96			
		Mumty									
		Column		6	0.30	0.60	3.00	3.24			
		Slab Beam		2	3.00	0.25	0.60	0.90			
				2	6.20	0.25	0.60	1.86			
		Mumty Slab		1	5.00	8.20	0.10	4.10			
		Column Above Roof Slab		42	0.30	0.60	0.90	6.80			
		Parapet Coping		1	149.00	0.20	0.075	2.24			
					Total RCC Quantity			<b>1094.19</b>	<b>Cum</b>	4,298.00	4702826.47
13	3.4	Extra for laying PCC/RCC of any grade in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth:									
		<b>First Floor Total Qty</b>						142.96	Cum	97.50	13938.99
		2nd Floor Qty						142.96	Cum	195.00	27877.98
		3Rd Floor Qty						142.96	Cum	292.50	41816.97
		4th Floor Qty						142.96	Cum	390.00	55755.96

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S. No.	SOR No.	Particular	No.	Measurement				Qty	Unit	Rate	Amount
				No.	L	B	D/H				
		5th Floor Qty						142.96	Cum	487.50	69694.95
		6th Floor Qty						142.96	Cum	585.00	83633.94
		Mumty						19.14	Cum	682.50	13062.37
14	3.12	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire in foundation and plinth all complete:									
	3.12.1	Thermo-Mechanically treated bars FE 415 D		@140Kg/Cum			1094.19	153186.53	Kg	54.50	8348665.89
15	3.1	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.									
	3.1.4	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 40mm nominal size).									
		Slab Grading		1	352.00	Sqm	0.10	35.20	Cum	3,552.00	125030.40
16	2.1	Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:									
A	2.1.5	Columns, Pillars, Piers and likes- rectangular or square in shape									
		Stilt Column		48	1.80		3.00	259.20			
		First Floor Coloumn		48	1.80		3.00	259.20			
		<b>First Floor Total Qty</b>						259.20	Sqm		
		2nd Floor Qty						259.20			
		3Rd Floor Qty						259.20			
		4th Floor Qty						259.20			
		5th Floor Qty						259.20			
		6th Floor Qty						259.20			
		Mumty Column		6	1.80		3.00	32.40			
		Column Above Roof Slab		42	1.80		0.90	68.04			
								1914.84	Sqm	297.00	568707.48
B	2.1.7	Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)									
		Stilt Floor Slab		1	352.00	Sqm		352.00			
		First Floor Slab		1	352.00	sqm		352.00			
		<b>First Floor Total Qty</b>						352.00	Sqm		
		2nd Floor Qty						352.00			
		3Rd Floor Qty						352.00			
		4th Floor Qty						352.00			
		5th Floor Qty						352.00			
		6th Floor Qty						352.00			
		Mumty Slab		1	5.00	8.20		41.00			
								2505.00	Sqm	235.00	588675.00
C	2.1.8	Beams, lintels, cantilevers & walls									
		<b>Stilt Floor</b>									
		X-X Direction		6	21.00		1.45	182.70			
				4	7.50		1.45	43.50			
		Y-Y Direction		4	22.50		1.45	130.50			
				2	18.50		1.45	53.65			
				4	4.20		1.45	24.36			
								434.71	sqm		
		<b>First Floor</b>									
		beams X-X Direction		6	21.00		1.45	182.70			
				4	7.50		1.45	43.50			

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S. No.	SOR No.	Particular	No.	Measurement				Qty	Unit	Rate	Amount
				No.	L	B	D/H				
		Y-Y Direction		4	22.50		1.45	130.50			
				2	18.50		1.45	53.65			
				4	4.20		1.45	24.36			
		Lintel Beam									
		X-X Direction		4	7.50		0.40	12.00			
				8	8.20		0.40	26.24			
				4	5.10		0.40	8.16			
				4	3.50		0.40	5.60			
				1	3.20		0.40	1.28			
		Y-Y Direction		4	10.20		0.40	16.32			
				4	6.40		0.40	10.24			
				4	4.20		0.40	6.72			
				4	6.80		0.40	10.88			
				4	3.20		0.40	5.12			
				4	3.50		0.40	5.60			
								<b>542.87</b>	sqm		
		<b>First Floor Total Qty</b>						<b>542.87</b>	<b>Sqm</b>		
		2nd Floor Qty						542.87			
		3Rd Floor Qty						542.87			
		4th Floor Qty						542.87			
		5th Floor Qty						542.87			
		6th Floor Qty						542.87			
		Mumty Slab Beam		2	3.00		1.45	8.70			
				2	6.20		1.45	17.98			
								<b>3718.61</b>	<b>Sqm</b>	202.00	751159.22
D	2.1.13	Weather shade, chhajja, Cornices and mouldings									
		Chhajja		4	1.30	0.60		3.12			
				4	2.10	0.60		5.04			
				4	1.55	0.60		3.72			
				3	1.90	0.60		3.42			
		Kitchen Plateform		4	5.50	0.65		14.30			
		<b>First Floor Total Qty</b>						<b>29.60</b>	<b>Sqm</b>		
		2nd Floor Qty						29.60			
		3Rd Floor Qty						29.60			
		4th Floor Qty						29.60			
		5th Floor Qty						29.60			
		6th Floor Qty						29.60			
								<b>177.60</b>	<b>Sqm</b>	294.00	52214.40
E	2.1.15	Stair cases of all types excluding spiral and folded plate type, including risers and landings									
		<b>Stilt Stair</b>									
		Waist Slab		2	4.00	1.50		12.00			
		Landing		2	1.50	1.50		4.50			
		sides		4	4.00		0.125	2.00			
		Risers		20	1.50	0.15		4.50			
		Treads		20	1.50		0.30	9.00			
								<b>32.00</b>	<b>sqm</b>		
		<b>First Floor</b>									
		Waist Slab		2	4.00	1.50		12.00			
		Landing		2	1.50	1.50		4.50			
		sides		4	4.00		0.13	2.00			
		Risers		20	1.50	0.15		4.50			
		Treads		20	1.50		0.30	9.00			
								<b>32.00</b>	<b>sqm</b>		
		<b>First Floor Total Qty</b>						32.00			
		2nd Floor Qty						32.00			
		3Rd Floor Qty						32.00			
		4th Floor Qty						32.00			
		5th Floor Qty						32.00			
		6th Floor Qty						32.00			
								<b>224.00</b>	<b>sqm</b>	230.00	51520.00

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S. No.	SOR No.	Particular	No.	Measurement				Qty	Unit	Rate	Amount
				No.	L	B	D/H				
17	4.5	Providing and laying water proofing treatment in sunken portion of WCs, bathroom, kitchen etc., by applying cement slurry mixed with water proofing cement compound consisting of following applications including surface preparation: i) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm. This layer will be allowed to air cure for 4 hours. ii) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound @ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours. The rate includes treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry.									
		Toilets (2 in each unit, 4nits per floor, total 6 floors)	2	24	2.40	1.30		149.76			
								<b>149.76</b>	<b>Sqm</b>	182.00	27256.32
18	7.5	Brick work with modular fly-ash lime bricks (FaLG Bricks) confirming to IS:12894-2002 of class designation 4.0 in foundation and plinth in:									
	7.5.4	Cement Mortar 1:6 (1 cement : 6 coarse sand)									
		Wall									
		X-X Direction		4	7.50	0.20	2.60	15.60			
				4	8.40	0.20	2.60	17.47			
				4	3.60	0.20	2.60	7.49			
				1	4.20	0.20	2.60	2.18			
		Y-Y Direction		4	10.20	0.20	2.60	21.22			
				4	4.50	0.20	2.60	9.36			
				4	7.40	0.20	2.60	15.39			
		Deductions									
		D1		1	1.20	0.20	2.40	-0.58			
		D2		3	1.00	0.20	2.40	-1.44			
		D3		2	0.90	0.20	2.40	-0.86			
		D4		2	0.75	0.20	2.10	-0.63			
		GW		2	1.60	0.20	1.65	-1.06			
		W1		2	1.80	0.20	1.65	-1.19			
		W2		1	1.20	0.20	1.65	-0.40			
		KW		1	1.20	0.20	1.20	-0.29			
		V1		1	0.60	0.20	0.60	-0.07			
		V2		1	0.40	0.20	0.60	-0.05			
		<b>First Floor Total Qty</b>						<b>82.15</b>	<b>Cum</b>		
		2nd Floor Qty						82.15			
		3Rd Floor Qty						82.15			
		4th Floor Qty						82.15			
		5th Floor Qty						82.15			
		6th Floor Qty						82.15			
		Mumty Wall		2	5.10	0.20	2.60	5.30			
				2	3.00	0.20	2.60	3.12			
		Parapet Wall		1	149.00	0.20	0.90	26.82			
								<b>528.17</b>	<b>Cum</b>	3,263.00	1723412.18
19	7.6	Extra for brick work in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth:									
		<b>First Floor Total Qty</b>						82.15	Cum	242.00	19881.27
		2nd Floor Qty						82.15	Cum	363.00	29821.90
		3Rd Floor Qty						82.15	Cum	484.00	39762.54

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S. No.	SOR No.	Particular	No.	Measurement				Qty	Unit	Rate	Amount
				No.	L	B	D/H				
		4th Floor Qty						82.15	Cum	605.00	49703.17
		5th Floor Qty						82.15	Cum	726.00	59643.80
		6th Floor Qty						82.15	Cum	847.00	69584.44
		Mumty Wall						35.24	Cum	968.00	34116.19
20	7.11	Half brick thick brick masonry with fly-ash lime bricks (FaLG Bricks) confirming to IS:12894-2002 of class designation 4.0 in superstructure above plinth level upto plinth level:									
	7.11.2	Cement Mortar 1:4 (1 cement : 4 coarse sand)									
		Inner Wall	4	7.40		2.60		76.96			
			4	4.80		2.60		49.92			
			4	4.40		2.60		45.76			
			4	3.20		2.60		33.28			
			4	3.60		2.60		37.44			
		<b>First Floor Total Qty</b>						<b>243.36</b>	<b>Sqm</b>		
		2nd Floor Qty						243.36			
		3Rd Floor Qty						243.36			
		4th Floor Qty						243.36			
		5th Floor Qty						243.36			
		6th Floor Qty						243.36			
								<b>1460.16</b>	<b>Sqm</b>	382.00	557781.12
21	7.12	Extra for half brick work in superstructure above plinth level for every story or part thereof in addition to rate for upto plinth level:									
		<b>First Floor Total Qty</b>						243.36	Sqm	22.00	5353.92
		2nd Floor Qty						243.36	Sqm	33.00	8030.88
		3Rd Floor Qty						243.36	Sqm	44.00	10707.84
		4th Floor Qty						243.36	Sqm	55.00	13384.80
		5th Floor Qty						243.36	Sqm	66.00	16061.76
		6th Floor Qty						243.36	Sqm	77.00	18738.72
22	11.1	Providing and making 6mm thick cement plaster of mix:									
	11.1.2	In Cement mortar 1:4 (1 cement : 4 fine sand)									
		Stilt Slab Area						<b>352.00</b>	<b>sqm</b>		
		<b>First Floor Slab</b>						352.00			
		Chhajja						29.60			
		Add 20% unseen or Beam Offset						5.92			
								<b>387.52</b>	<b>Sqm</b>		
		<b>First Floor Total Qty</b>						<b>387.52</b>			
		2nd Floor Qty						387.52			
		3Rd Floor Qty						387.52			
		4th Floor Qty						387.52			
		5th Floor Qty						387.52			
		6th Floor Qty						387.52			
		Mumty Slab						41.00			
								<b>2718.12</b>	<b>Sqm</b>	87.00	236476.44
23	7.20	Extra for providing and placing in position hopping 25x1.60 mm or 2 Nos 6mm dia MS bars reinforcement at every third course of half brick masonry.									
		<b>First Floor Total Qty</b>						1216.80			
		2nd Floor Qty						1216.80			
		3Rd Floor Qty						1216.80			
		4th Floor Qty						1216.80			
		5th Floor Qty						1216.80			

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S. No.	SOR No.	Particular	No.	Measurement				Qty	Unit	Rate	Amount
				No.	L	B	D/H				
		6th Floor Qty						1216.80			
								7300.80	SQM	62.50	456300.00
24	11.2	Providing and making 12mm thick cement plaster of mix:									
	11.2.3	In Cement Mortar 1:5 (1 cement : 5 fine sand)									
		<b>Stilt Floor</b>									
		Coloumns						259.20			
		Slab Beam						434.71			
								693.91	sqm		
		<b>First Floor</b>									
		Wall	4	7.50			3.20	96.00			
			4	8.40			3.20	107.52			
			4	3.60			3.20	46.08			
			1	4.20			3.20	13.44			
			4	10.20			3.20	130.56			
			4	4.50			3.20	57.60			
			4	7.40			3.20	94.72			
		Inner Wall	4	7.40			3.20	94.72			
			4	4.80			3.20	61.44			
			4	4.40			3.20	56.32			
			4	3.20			3.20	40.96			
			4	3.60			3.20	46.08			
		Deductions									
		D1	1	1.20			2.40	-2.88			
		D2	3	1.00			2.40	-7.20			
		D3	2	0.90			2.40	-4.32			
		D4	2	0.75			2.10	-3.15			
		W	2	1.60			1.65	-5.28			
		W1	2	1.80			1.65	-5.94			
		W2	1	1.20			1.65	-1.98			
		KW	1	1.20			1.20	-1.44			
		V1	1	0.60			0.60	-0.36			
		V2	1	0.40			0.60	-0.24			
		<b>First Floor Total Qty</b>						812.65	Sqm		
		2nd Floor Qty						812.65			
		3Rd Floor Qty						812.65			
		4th Floor Qty						812.65			
		5th Floor Qty						812.65			
		6th Floor Qty						812.65			
		Mumty Wall	4	5.10			3.20	65.28			
			4	3.00			3.20	38.40			
		Parapet Wall	2	149.00			0.90	268.20			
								5247.78	Sqm	96.50	506410.77
25	11.3	Providing and making 15mm thick cement plaster on the rough side of single or half brick wall of mix:									
	11.3.3	In Cement Mortar 1:5 (1 cement : 5 fine sand)									
		<b>First Floor Total Qty</b>						812.65			
		2nd Floor Qty						812.65			
		3Rd Floor Qty						812.65			
		4th Floor Qty						812.65			
		5th Floor Qty						812.65			
		6th Floor Qty						812.65			
								4875.90	Sqm	113.00	550976.70

# PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S. No.	SOR No.	Particular	No.	Measurement				Qty	Unit	Rate	Amount
				No.	L	B	D/H				
26	11.8	Providing and making 18mm thick cement plaster in two coats with under layer of 12mm thick plaster 1:5 (1 cement : 5 fine sand) and top layer of 6mm thick with cement plaster 1:3 (1 cement : 3 fine sand) finished rough with sponge									
		Outer Wall	1	185.00			3.10	573.50			
		For Elevation	12	0.80			3.10	29.76			
			6	1.00			3.10	18.60			
		<b>First Floor Total Qty</b>						<b>621.86</b>	<b>Sqm</b>		
		2nd Floor Qty						621.86			
		3Rd Floor Qty						621.86			
		4th Floor Qty						621.86			
		5th Floor Qty						621.86			
		6th Floor Qty						621.86			
								<b>3731.16</b>	<b>Sqm</b>	167.00	623103.72
27	11.10	Providing and mixing in cement mortar, triangular polyester fiber Recron 3s (Anti-shrinkage Admixture) of 6 mm length of approved make like Reliance industries Ltd etc. in proportion as recommended by manufacturer. @						<b>48.36</b>	<b>kg</b>	366.00	17698.24
28	11.40	Making grove in cement plaster while plastering upto 10 mm deep and 10 mm wide.									
			180	156.00				28080.00	Mtr	1.30	36504.00
29	11.13	Extra for plastering done on mouldings, cornices or architraves including neat finish to line and level.									
			180	1.60			0.85	244.80	SQM	134.00	32803.20
30	11.11	Extra for plastering of exterior walls when height exceeds 10m above ground level for every additional height of 3.0m or part thereof.									
		3rd Floor Qty						621.86	Sqm	22.50	13991.85
		4th Floor Qty						621.86	Sqm	45.00	27983.70
		5th Floor Qty						621.86	Sqm	67.50	41975.55
		6th Floor Qty						621.86	Sqm	90.00	55967.40
29	11.41	Providing and fixing chicken mesh weighting not less than 250 gms/ sqm as per IS : specification in the required width with 40mm long steel nails on vertical and horizontal surface near R.C.C. and brick walls junctions including scaffolding and all lead and lifts etc. complete before plastering upto 10mts in height.									
		Column	2	48	0.3		<b>3.00</b>	86.40			
		Slab Beam	2		299.8	0.30		179.88			
		Lintel Beam	2		299.8	0.30		179.88			
		<b>First Floor Total Qty</b>						<b>446.16</b>	<b>Sqm</b>		
		2nd Floor Qty						446.16			
		3Rd Floor Qty						446.16			
		4th Floor Qty						446.16			
		5th Floor Qty						446.16			
		6th Floor Qty						446.16			
								<b>2676.96</b>	<b>Sqm</b>	86.00	230218.56
30	9.57	Providing stainless steel railing/ grill made of S.S. flats, hollow S.S. pipe or square/ rectangular sections of approved design fixing in stair case, balcony or other places with metal fasteners and stainless steel bolts etc complete.									

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S. No.	SOR No.	Particular	No.	Measurement				Qty	Unit	Rate	Amount
				No.	L	B	D/H				
	9.57.1	SS Grade 204									
		Balcony Railing		4	5.20		1.00	20.80			
		Wash Area		4	4		1.00	16.00			
		Stair Railing		2	3.50		1.00	7.00			
		Entrance Railing		2	1.50		1.00	3.00			
								<b>46.80</b>	<b>Sqm</b>		
		<b>First Floor Total Qty</b>					@12Kg/Sqm	<b>561.60</b>	<b>Kg</b>		
		2nd Floor Qty						561.60			
		3Rd Floor Qty						561.60			
		4th Floor Qty						561.60			
		5th Floor Qty						561.60			
		6th Floor Qty						561.60			
								<b>3369.60</b>	<b>Kg</b>	467.00	1573603.20
31	Ammen dment No. 04 12.79	Providing and laying DOUBLE/MULTI CHARGE (minimum 2.0 mm thick laying) VIRTRIFIED floor tiles with water absorption less then 0.05% and conforming to IS: 15622-2017 of 1st quality of approved make in all colors and shades and size mentioned below (+/- 10 mm), laid on 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including pointing the joints with white cement and matching pigments etc. complete.									
	12.79.2	Size 800x800mrn thickness 9 to 10mm									
		Living Hall		4	3.40	5.70		77.52			
		Hall Lobby		4	1.70	1.90		12.92			
		Bedroom 1		4	4.00	3.00		48.00			
		Bedroom 2		4	3.40	3.20		43.52			
		Kitchen		4	2.40	3.40		32.64			
		Balcony		4	3.40	1.20		16.32			
		Wash		4	2.40	1.20		11.52			
		20% Extra for skirting						48.49			
		<b>First Floor Total Qty</b>						<b>290.93</b>	<b>Sqm</b>		
		2nd Floor Qty						290.93			
		3Rd Floor Qty						290.93			
		4th Floor Qty						290.93			
		5th Floor Qty						290.93			
		6th Floor Qty						290.93			
								<b>1745.57</b>	<b>Sqm</b>	1,343.00	2344297.82
32	12.9	Providing and laying ceramic glazed floor tiles conforming to IS : 15622 of approved size, make, colour, shade laid on 20 mm thick Cement Mortar 1:4 (1 cement : 4 coarse sand) including pointing the joints with white cement mixed with matching pigment etc., complete.									
		Stilt Parking						<b>480.00</b>	<b>sqm</b>	692.00	332160.00
33	Ammen dment No. 04 12.75	Providing and fixing rectified glazed ceramic wall/dado tiles of 1st quality conforming to IS : 15622-2017 of approved make, in all colours, shades on wall and dados over 12 mm thick bed of cement Mortar 1 :3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with matching pigment complete.									
	12.75.3	Size 400x800mm thickness 7 to 9mm									
		Toilet Wall		4	2	1.80	2.10	60.48			
				4	2	1.30	2.10	43.68			
		Toilet		4	2	2.40	2.10	80.64			
				4	2	1.30	2.10	43.68			

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S. No.	SOR No.	Particular	No.	Measurement				Qty	Unit	Rate	Amount
				No.	L	B	D/H				
		<b>First Floor Total Qty</b>						<b>228.48</b>	<b>Sqm</b>		
		2nd Floor Qty						228.48			
		3Rd Floor Qty						228.48			
		4th Floor Qty						228.48			
		5th Floor Qty						228.48			
		6th Floor Qty						228.48			
								<b>1370.88</b>	<b>Sqm</b>	897.00	1229679.36
34	Ammen dment No. 04 12.74	Providing and fixing rectified glazed ceramic Floor tiles of 1st quality conforming to IS : 15622-2017 of approved make, in all colours, shades over 20 mm thick bed of cement Mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with matching pigment complete.									
	12.74.3	Size 600x600mm thickness 8 to 9mm									
		Toilet Floor	4	1	1.80	1.30		9.36			
			4	1	2.40	1.30		12.48			
		<b>First Floor Total Qty</b>						<b>21.84</b>	<b>Sqm</b>		
		2nd Floor Qty						21.84			
		3Rd Floor Qty						21.84			
		4th Floor Qty						21.84			
		5th Floor Qty						21.84			
		6th Floor Qty						21.84			
								<b>131.04</b>	<b>Sqm</b>	897.00	117542.88
35	12.46	15 mm thick Table rubbed polished Granite stone slab in risers and treads of step skirting dado and pillars laid on 12mm (Average) thick base of cement mortar 1:3 (1 cement : 3 coarse sand) and jointed with grey cement slurry including rubbing and polishing etc. complete(single stone is to be used for risers and treads of steps and width of stone for skirting and dado shall be equal to the height of skirting & dado and length of 1.0 m).									
	12.46.2	Granite stone black									
		Stilt Floor									
		Stair									
		Landing	2		1.50	1.50		4.50			
		Risers	20		1.50	0.15		4.50			
		Treads	20		1.50		0.30	9.00			
								<b>18.00</b>	<b>sqm</b>		
		<b>First Floor Stair</b>						<b>18.00</b>	<b>sqm</b>		
		Kitchen Platform	4		5.50	0.65		14.30			
			4		5.50		0.15	3.30			
		Corridor	1		6.00	2.40		14.40			
		<b>First Floor Total Qty</b>						<b>50.00</b>	<b>Sqm</b>		
		2nd Floor Qty						50.00			
		3Rd Floor Qty						50.00			
		4th Floor Qty						50.00			
		5th Floor Qty						50.00			
		6th Floor Qty						50.00			
								<b>318.00</b>	<b>Sqm</b>	2,719.00	864642.00
36	12.44	Extra for nosing in Granite stone for treads.									
		Stilt Floor	20		1.50			<b>30.00</b>	<b>Mtr</b>		
		<b>First Floor Total Qty</b>						<b>30.00</b>	<b>Mtr</b>		
		2nd Floor Qty						30.00			
		3Rd Floor Qty						30.00			
		4th Floor Qty						30.00			

# PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S. No.	SOR No.	Particular	No.	Measurement				Qty	Unit	Rate	Amount
				No.	L	B	D/H				
		5th Floor Qty						30.00			
		6th Floor Qty						30.00			
								<b>210.00</b>	<b>Mtr</b>	126.00	26460.00
37	12.65	Providing & laying 60mm thick precast interlocking concrete blocks of approved size (approx 305 sqcm) and shape/ pattern, over 40 mm thick average complete coarse sand bed with joints of 3mm thick filled by fine sand including leveling with surface vibrator, temping and sweeping etc. complete of minimum compressive strength of 250 kg/sq.cm									
	12.65.2	Pigment Coloured (rubber mould) precast interlock concrete blocks									
		Stilt Floor (Parking)			352.00	Sqm		352.00	Sqm	632.00	222464.00
38	Ammdment No. 01 12.9.3	Crazy ceramic tile flooring, with under layer 12 mm thick cement mortar 1:4 (1 cement:4 coarse sand), with joints not exceeding 5 mm, including tilling the gaps with ordinary cement mixture & mixing with synthetic polyester fibre, triangular in shape having specific gravity of 1.34 to 1.40, cross section size ranging from 10 to 40 micron & length upto 6 mm, mixing fibre @ 125 grams per 50 kg of cement in cement mortar, including providing and mixing water proofing material in mortar @ 1 kg per 50 kg of cement, all complete as per direction of Engineer-in-charge.									
		Terrace	1	320.00	Sqm			320.00	Sqm	386.00	123520.00
39	CG PWD BUILD SOR 2015 AMM 08 14.56	Providing and applying <b>2mm thick</b> polymeric Exterior grade white cement based Putty with minimum 3 coats applied @ 5.4 kg/ 10Sqm as per relevant IS code 17545:2021 (Product such as Birla wall care, Asian trucare, JK wall putty, Berger Bison wall putty) to make the surface smooth and even with all tools tackles and labour etc. complete for the work.									
		Quantity of 6mm Plaster						2718.12			
		Quantity of 12mm Plaster						5247.78			
		Quantity of 15mm Plaster						4875.90			
								<b>12841.80</b>	<b>Sqm</b>	86.00	1104394.80
40	CG PWD BUILD SOR 2015 AMM 08 14.64	Providing and applying <b>Premium plastic emulsion paint</b> with roller application minimum three coats applied @ 0.75 lit / 10Sqm up to final finish as per relevant I.S. Code 15489:2013 Type -I Class D & C ( Glossy and Semi Glossy Finish) of required shade (Product such as Asian Apcolite Premium , Dulux Super Cover, Berger Easy Clean Nippon Breeze Metex Gold, Opus I-50 / Calista) inclusive of providing abro tape on edges and article and cleaning of door, windows, floor and surface as required with all tools tackles and labour etc. complete for the work.(with 3 year Warranty)									
		Quantity of 6mm Plaster						2718.12			
		Quantity of 12mm Plaster						5247.78			
								<b>7965.90</b>	<b>Sqm</b>	84.00	669135.60

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S. No.	SOR No.	Particular	No.	Measurement				Qty	Unit	Rate	Amount
				No.	L	B	D/H				
41	CG PWD BUILD SOR 2015 AMM 08 14.70	Providing and applying acrylic modified resin <b>EXTERIOR TEXTURED</b> with special quality silica quartz plaster as an intermediate coating on external surface giving protective layer and decorative finish on plastered surface in approved design and shade (product such as Asian Apex Series Duracast Dulux weathersheald sandtax creation) as per manufacturer's specifications inclusive of providing abro tape on edges and article and cleaning of door, windows, floor and surface as required with all tools tackles and labour etc.complete for the work.									
		Quantity of 15mm Plaster						4875.90			
								<b>4875.90</b>	<b>Sqm</b>	439.00	2140520.10
		<b>Door &amp; Window</b>									
42	8.12	Providing and fixing flush door shutters, conforming to IS : 2202 (Part-I), decorative type core of block board construction with frame of first class hard wood and well matched teak ply veneering with vertical grains or cross bands and face veneers on both faces of shutters excluding hinges.									
	8.12.2	35 mm. thick (single leaf)									
		D1	4	1	1.20		2.40	11.52			
		D2	4	3	1.00		2.40	28.80			
		D3	4	2	0.90		2.40	17.28			
		<b>First Floor Total Qty</b>						<b>57.60</b>	<b>Sqm</b>		
		2nd Floor Qty						57.60			
		3Rd Floor Qty						57.60			
		4th Floor Qty						57.60			
		5th Floor Qty						57.60			
		6th Floor Qty						57.60			
		Mumty Door D1		1	1.20		2.40	2.88			
								<b>348.48</b>	<b>Sqm</b>	2,005.00	698702.40
43	8.1	Providing wood work in frames of doors windows, clerestory windows and other frames wrought framed and fixed in position.									
	8.1.2	Sal, bijasal, benteak, chair, haldu									
		D1	4	1	6.00	0.075	0.125	0.23			
		D2	4	3	5.80	0.075	0.125	0.65			
		D3	4	2	5.70	0.075	0.125	0.43			
		<b>First Floor Total Qty</b>						<b>1.31</b>	<b>Cum</b>		
		2nd Floor Qty						1.31			
		3Rd Floor Qty						1.31			
		4th Floor Qty						1.31			
		5th Floor Qty						1.31			
		6th Floor Qty						1.31			
		Mumty Door D1		1	6.00	0.075	0.125	0.06			
								<b>7.89</b>	<b>Cum</b>	61,051.00	481463.45
44	14.25	Providing and laying French sprit polish on new wood work after preparing the surface by rubbing down smooth with sand papers, covering the knots, if visible applying a coat of wood filler cleaning the surface applying 50 or more coats of French spirit polish till the surface gives high gloss.									
								57.60			
		<b>First Floor Total Qty</b>						<b>57.60</b>	<b>Sqm</b>		
		2nd Floor Qty						57.60			
		3Rd Floor Qty						57.60			

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S. No.	SOR No.	Particular	No.	Measurement				Qty	Unit	Rate	Amount
				No.	L	B	D/H				
		4th Floor Qty						57.60			
		5th Floor Qty						57.60			
		6th Floor Qty						57.60			
		Mumty Door D1						2.88			
								<b>348.48</b>	<b>Sqm</b>	143.00	49832.64
45	8.58	Providing and fixing bright finished brass butt hinges with brass polished MS screws complete.									
	8.58.1	125x85x5.50 mm (Heavy Type)									
		D1	4	1	4.00			16.00			
		D2	4	3	4.00			48.00			
		D3	4	2	4.00			32.00			
		<b>First Floor Total Qty</b>						<b>96.00</b>	<b>Each</b>		
		2nd Floor Qty						96.00			
		3Rd Floor Qty						96.00			
		4th Floor Qty						96.00			
		5th Floor Qty						96.00			
		6th Floor Qty						96.00			
								<b>576.00</b>	<b>Each</b>	437.00	251712.00
46	8.139	Providing and fixing stainless steel tower bolts (Barrel type) with necessary stainless steel screws etc complete.									
	8.139.1	250x10mm									
		D1	4	1	2.00			8.00			
		D2	4	3	2.00			24.00			
		D3	4	2	2.00			16.00			
		<b>First Floor Total Qty</b>						<b>48.00</b>	<b>Each</b>		
		2nd Floor Qty						48.00			
		3Rd Floor Qty						48.00			
		4th Floor Qty						48.00			
		5th Floor Qty						48.00			
		6th Floor Qty						48.00			
								<b>288.00</b>	<b>Each</b>	97.00	27936.00
47	8.140	Providing and fixing stainless steel door handles having flap thickness 2.5mm, necessary stainless steel screws etc complete.									
	8.140.2	125 mm									
		D1	4	1	2.00			8.00			
		D2	4	3	2.00			24.00			
		D3	4	2	2.00			16.00			
		<b>First Floor Total Qty</b>						<b>48.00</b>	<b>Each</b>		
		2nd Floor Qty						48.00			
		3Rd Floor Qty						48.00			
		4th Floor Qty						48.00			
		5th Floor Qty						48.00			
		6th Floor Qty						48.00			
								<b>288.00</b>	<b>Each</b>	22.50	6480.00
48	8.138	Providing and fixing S.S. door latch with 12mm rod necessary nickel plated iron nuts bolts and screws etc complete.									
	8.138.2	250mm									
		D1	4	1	2.00			8.00			
		D2	4	3	2.00			24.00			
		D3	4	2	2.00			16.00			
		<b>First Floor Total Qty</b>						<b>48.00</b>	<b>Each</b>		
		2nd Floor Qty						48.00			
		3Rd Floor Qty						48.00			
		4th Floor Qty						48.00			
		5th Floor Qty						48.00			
		6th Floor Qty						48.00			
								<b>288.00</b>	<b>Each</b>	85.00	24480.00

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S. No.	SOR No.	Particular	No.	Measurement				Qty	Unit	Rate	Amount
				No.	L	B	D/H				
49	8.137	Providing and fixing stainless steel sliding door bolts with 16mm rod, 2.5mm thick flap, necessary stainless steel nuts bolts and screws etc.complete									
	8.137.2	250mm									
			D1	4	1	2.00		8.00			
			D2	4	3	2.00		24.00			
			D3	4	2	2.00		16.00			
		<b>First Floor Total Qty</b>						<b>48.00</b>	<b>Each</b>		
		2nd Floor Qty						48.00			
		3Rd Floor Qty						48.00			
		4th Floor Qty						48.00			
		5th Floor Qty						48.00			
		6th Floor Qty						48.00			
								<b>288.00</b>	<b>Each</b>	228.00	65664.00
50	8.143	Providing and fixing stainless steel hanging door stopper with necessary stainless steel screws complete.									
	8.143.2	Single									
			D1	4	1			4.00			
			D2	4	3			12.00			
			D3	4	2			8.00			
		<b>First Floor Total Qty</b>						<b>24.00</b>	<b>Each</b>		
		2nd Floor Qty						24.00			
		3Rd Floor Qty						24.00			
		4th Floor Qty						24.00			
		5th Floor Qty						24.00			
		6th Floor Qty						24.00			
								<b>144.00</b>	<b>Each</b>	65.00	9360.00
51	8.160	Providing and fixing expandable fasteners of specified size with necessary plastic sleeves and galvanized M.S screws including drilling holes in masonry work /CC/ R.C.C by drilling machine and making good etc complete.									
	8.160.4	50 mm long									
			D1	4	1	4.00		16.00			
			D2	4	3	4.00		48.00			
			D3	4	2	4.00		32.00			
		<b>First Floor Total Qty</b>						<b>96.00</b>	<b>Each</b>		
		2nd Floor Qty						96.00			
		3Rd Floor Qty						96.00			
		4th Floor Qty						96.00			
		5th Floor Qty						96.00			
		6th Floor Qty						96.00			
								<b>576.00</b>	<b>Each</b>	30.00	17280.00
52	8.3	Providing 40x5mm iron hold fast 40cm long including fixing to frame with 10mm bolts nuts and wooden plug and embedding in Cement Concrete 1:2:4 in blocks of size 30x10x15cm.									
			D1	4	1	3.00		12.00			
			D2	4	3	3.00		36.00			
			D3	4	2	3.00		24.00			
		<b>First Floor Total Qty</b>						<b>72.00</b>	<b>Each</b>		
		2nd Floor Qty						72.00			
		3Rd Floor Qty						72.00			
		4th Floor Qty						72.00			
		5th Floor Qty						72.00			
		6th Floor Qty						72.00			
								<b>432.00</b>	<b>Each</b>	72.50	31320.00

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S. No.	SOR No.	Particular	No.	Measurement				Qty	Unit	Rate	Amount
				No.	L	B	D/H				
53	8.152	Providing and fixing 30mm thick factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19mm x 19mm for styles and 15x15mm for top & bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture . M.S. frame covered with 5mm thick heat moulded PVC 'C' channel of size 30mm thickness, 70mm width out of which 50mm shall be flat and 20mm shall be tapered in 45degree angle on either side forming styles; and 5mm thick, 95mm wide PVC sheet out of which 75mm shall be flat and 20mm shall be tapered in 45 degree on the inner side to form top and bottom rail and 115mm wide PVC sheet out of which 75mm shall be flat and 20mm shall be tapered on both sides to form lock rail. Top, bottom and lock rails shall be provided either side of the panel. 10mm (5mm x 2 ) thick, 20mm wide cross PVC sheet be provided as gap insert for top rail & bottom rail. paneling of 5mm thick both									
	8.152.2	Both side Pre-laminated panel PVC door shutter									
		D4	4	2	0.75		2.10	12.60			
		<b>First Floor Total Qty</b>						<b>12.60</b>	<b>Sqm</b>		
		2nd Floor Qty						12.60			
		3Rd Floor Qty						12.60			
		4th Floor Qty						12.60			
		5th Floor Qty						12.60			
		6th Floor Qty						12.60			
								<b>75.60</b>	<b>Sqm</b>	2,832.00	214099.20
54	8.151	Providing and fixing factory made P.V.C. door frame of size 50x47mm with a wall thickness of 5mm, made out of extruded 5mm rigid PVC foam sheet mitred at corners and joined with 2 Nos of 150mm long brackets of 15x15mm M.S. square tube, the vertical door profiles to be reinforced with 19x19mm M.S. square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame. The door frame to be fixed to the wall using M.S. screws of 65/100mm size complete as per manufacturers specification and direction of Engineer-in-Charge.									
		D4	4	2	5.70			45.60			
		<b>First Floor Total Qty</b>						<b>45.60</b>	<b>Mtr</b>		
		2nd Floor Qty						45.60			
		3Rd Floor Qty						45.60			
		4th Floor Qty						45.60			
		5th Floor Qty						45.60			
		6th Floor Qty						45.60			
								<b>273.60</b>	<b>Mtr</b>	346.00	94665.60
55	9.15	Providing and fixing M.S. grill of approved pattern made of M.S. flats or square or round bars welded to steel frame of windows etc. including applying a priming coat welded to frame with all necessary fitting complete including applying a priming of red oxide zinc chromate primer.									
		GW	1	2	1.60		1.65	5.28			
		W1	4	2	1.80		1.65	23.76			

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S. No.	SOR No.	Particular	No.	Measurement				Qty	Unit	Rate	Amount
				No.	L	B	D/H				
		W2	4	1	1.20		1.65	7.92			
		KW	4	1	1.20		1.20	5.76			
		V1	4	1	0.60		0.60	1.44			
		V2	4	1	0.40		0.60	0.96			
								<b>45.12</b>	<b>Sqm</b>		
		<b>First Floor Total Qty</b>			20kg per sqm			<b>902.40</b>	<b>Kg</b>		
		2nd Floor Qty						902.40			
		3Rd Floor Qty						902.40			
		4th Floor Qty						902.40			
		5th Floor Qty						902.40			
		6th Floor Qty						902.40			
		Mumty Window W1		1	1.80		1.65	2.97			
		Duct Grill		4	1.20		10.00	48.00			
					12 kg per sqm			<b>611.64</b>			
								<b>6026.04</b>	<b>Kg</b>	67.50	406757.70
56	CG PWD BUILD SOR 2015 AMM 08 14.72	Providing and applying mimimum 2 Coats Glossy finish Enamel paint in al surface applying @ 0.75 lit/ 10 Sqm up to required finish as per relevent I.S. code 2932: 2013 of (Product such as Asian Apcolite Premium Enamel Dulux Promise Premium Enamel Nerolac Synthatic Enamel, Opus Prime enamel ) inclusive of providing abro tape on edges and article and cleaning of door, windows, floor and surface as required with all tools tackle and labour etc. complete for the work.									
								45.12			
		<b>First Floor Total Qty</b>						<b>45.12</b>	<b>Sqm</b>		
		2nd Floor Qty						45.12			
		3Rd Floor Qty						45.12			
		4th Floor Qty						45.12			
		5th Floor Qty						45.12			
		6th Floor Qty						45.12			
		Mumty Window W1		1	1.80		1.65	2.97			
								<b>273.69</b>	<b>Sqm</b>	120.00	32842.80
57	CG BUILD NG SOR AMM 03 8.166	Providing and fixing factory made uPVC white colour sliding glazed window upto 1.50 m in height dimension comprising of uPVC multi-chambered frame with in-/- , built roller track and sash extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (s~ape & size according to uPVC profile), appropriate dimension of uPVC extruded glazing beads and uPVC extruded interlocks, EPDM gasket, wool pile, zinc alloy (white powder coated) touch locks with hook, zinc/alloy body with single nylon rollers (weight bearing capacity to be 40 kg), G.I fasteners 100 x 8 mm size for fixing . . frame to finished wall and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the _gap -between frame and adjacent finished wall shall be filled with weather proof silicon									

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S. No.	SOR No.	Particular	No.	Measurement				Qty	Unit	Rate	Amount
				No.	L	B	D/H				
	8.165.D.5	Three track three panels sliding window made of (big series) frame 116 x 45 mm & Sqm .. 6889.55* D.5 sash 46 x 62 mm both having wall thickn~ss of 2.3 ± 0.2 mm and single glazing bead I double glazing bead of appropriate dimension. (Area of window above 1.75 sqm)									
		W	1	2	1.60		1.65	5.28			
		W1	4	2	1.80		1.65	23.76			
		W2	4	1	1.20		1.65	7.92			
		KW	4	1	1.20		1.20	5.76			
		V1	4	1	0.60		0.60	1.44			
		V2	4	1	0.40		0.60	0.96			
		<b>First Floor Total Qty</b>						<b>45.12</b>	<b>Sqm</b>		
		2nd Floor Qty						<b>45.12</b>			
		3Rd Floor Qty						45.12			
		4th Floor Qty						45.12			
		5th Floor Qty						45.12			
		6th Floor Qty						45.12			
		Mumty Window W1		1	1.80		1.65	2.97			
								<b>273.69</b>	<b>sqm</b>	6,889.55	1885600.94
58	9.59	Extra for providing and fixing reflective glass panes in aluminium door, window, ventilator shutters and partitions instead of float glass.									
	9.59.3	6 mm thickness									
		W	1	2	1.60		1.65	5.28			
		W1	4	2	1.80		1.65	23.76			
		W2	4	1	1.20		1.65	7.92			
		KW	4	1	1.20		1.20	5.76			
		<b>First Floor Total Qty</b>						<b>42.72</b>	<b>Sqm</b>		
		2nd Floor Qty						42.72			
		3Rd Floor Qty						42.72			
		4th Floor Qty						42.72			
		5th Floor Qty						42.72			
		6th Floor Qty						42.72			
		Mumty Window W1		1	1.80		1.65	2.97			
								<b>259.29</b>	<b>Sqm</b>	353.00	91529.37
59	9.44	Providing and fixing "NETLON insect screens" with 25mm wide Hook and loop tape all around to wooden/ aluminium/ steel windows, ventilators and the like complete.									
								<b>259.29</b>	<b>sqm</b>	278.00	72082.62
60	4.6	<b>Water Proofing</b>									

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S. No.	SOR No.	Particular	No.	Measurement				Qty	Unit	Rate	Amount
				No.	L	B	D/H				
		Providing and laying water proofing treatment on roofs of slabs by applying cement slurry mixed with water proofing cement compound consisting of following applications including surface preparation: i) 1st layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm. ii) 2nd layer of Fibre glass cloth when the first layer is still green. Overlaps of joints of fibre cloth should not be less than 10 cm. iii) 3rd layer of 1.5 mm thickness consisting of slurry of cement @ 1.289 kg/sqm mixed with coarse sand @ 1.289 kg/sqm and water proofing cement compound @ 0.07 kg/sqm. This will be allowed to air cure for 4 hours followed by water curing for 48 hours. The entire treatment will be taken upto 30cm on parapet wall and tucked into groove in parapet all around. iv) 4th and final layer of brick tiling with cement mortar (which will be paid for separately)									
		Roofs and Mumty	1	1.00	18.00	24.00		<b>432.00</b>	sqm	283.00	122256.00
								<b>Total Rs. :-</b>			<b>40874554.62</b>
								<b>Add 5% for Fire Fighting</b>			<b>2043727.73</b>
								<b>Total Rs. :-</b>			<b>42918282.35</b>
								<b>To Say (In Lakh) :-</b>			<b>429.18</b>

<b>DETAILED ESTIMATE FOR THE CONSTRUCTIONS OF GAD COLONY /OFFICE UNDER REDEVELOPMENT YOJANA AT KAILASH NAGAR RAJNANDGAON (C.G.</b>										
<b>Sanitary &amp; Water Supply of G-Type 2BHK (S+3))</b>										
S. No.	SOR No.	Particular	No.	Measurement			Qty	Unit	Rate	Amount
				No.	L	B				
		<b>Sanitary &amp; Water Supply Work</b>								
1	18.1	Providing and fixing water closet squatting pan (Indian type W.C. pan ), 100mm sand cast Iron P or S trap, 10 litre low level P.V.C. flushing cistern (same colour) conforming to IS : 7231, with flush bend and other fittings and fixtures complete including cutting and making good the walls and floors wherever required :								
	18.1.3	White Orissa pattern W.C. pan of size 580x440 mm								
		Indian type W.C.	6	4			24.00	Each	2899.00	69576.00
2	18.4	Providing and fixing vitreous china water closet (European type W.C. pan) with white ISI marked plastic seat and lid, 10 litre low level white P.V.C. flushing cistern (same colour), conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required :								
	18.4.2	Coloured pedestal type								
		European type W.C.	6	4			24.00	Each	3592.00	86208.00
3	18.17	Providing and fixing vitreous china wash basin with C.I. brackets, 32 mm C.P. brass waste of standard pattern, including painting of brackets, cutting and making good the walls wherever required :								
	18.17.1	White Size 550x450 mm								
		Wash basin	6	8			48.00	Each	1430.00	68640.00
4	18.22	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink without drain board as per IS 13983 with C.I. brackets and stainless steel plug 40 mm including painting of fittings and brackets, cutting and making good the walls wherever required :								
	18.22.1	345x445 mm bowl depth 200 mm.								
		kitchen sink	6	4			24.00	Each	6298.00	151152.00
5	18.25	Providing and fixing flexible P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.								
	18.25.1	32 mm dia								
		Wash basin	6	8			48.00			
		Kitchen sink	6	4			24.00			
							72.00	Each	68.50	4932.00
6	18.76	Providing and fixing on wall face UV stabilized Unplasticised Rigid PVC pipes (single socketed) having 3.2mm wall thickness conforming to IS : 13592 (4kg/sqcm) including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion.								
	18.76.1	75 mm dia pipe.								
		Horizontal			800.00		800.00			
		Vertical			940.00		940.00			
		vent pipe for waste water stack			660.00		660.00			

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S. No.	SOR No.	Particular	No.	Measurement			Qty	Unit	Rate	Amount
				No.	L	B	D/H			
		Rain water pipe			600.00			600.00		
								<b>3000.00</b>	<b>Mtr</b>	182.00
	18.76.2	110 mm dia pipe.								
		horizontal			680.00			680.00		
		Vertical			700.00			700.00		
		for rain water pipe			656.00			656.00		
		horizontal (stilt floor)			630.00			630.00		
								<b>2666.00</b>	<b>Mtr</b>	267.00
										711822.00
	18.76.3	150 mm dia pipe						110.00	Mtr	440.00
										48400.00
7	18.78	Providing and fixing UV stabilized Unplasticised -PVC pipe clips of approved design to Rigid PVC pipes by means of 50x50x50mm hard wood plugs, screwed with M.S. screws of required length including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.								
	18.78.1	75 mm		1500				1500.00	Each	57.00
	18.78.2	110 mm		1333				1333.00	Each	61.00
										85500.00
										81313.00
8	18.77	Providing and fixing on wall face UV stabilized Unplasticised - PVC moulded fittings/ accessories having 3.2mm wall thickness for Rigid PVC pipes conforming to IS : 13592 (heavy) jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion.								
	18.77.1	Tee/ Tee with door/ Bend 45°/ Bend 90°								
	18.77.1.1	75 mm		64				64.00	Each	113.00
	18.77.1.2	110 mm		128				128.00	Each	154.00
	18.77.4	Access door cap								
	18.77.4.1	75 mm		30				30.00	Each	49.50
	18.77.4.2	110 mm		56				56.00	Each	59.00
	18.77.5	P trap 110mmx110mm long		30				30.00	Each	227.00
	18.77.6	Nahani trap 110x75mm		36				36.00	Each	90.50
	18.77.7	Multi floor trap 110		24				24.00	Each	122.00
	18.77.8	Plain reducing Tee 110x75mm		28				28.00	Each	129.00
										3612.00
9	19.4	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.INTERNAL WORK - EXPOSED ON WALL								
	19.4.1	15 mm nominal outer dia .Pipes.			300.00			300.00	Mtr	110.00
	19.4.2	20 mm nominal outer dia .Pipes.			480.00			480.00	Mtr	151.00
	19.4.3	25 mm nominal outer dia .Pipes.			600.00			600.00	Mtr	199.00
	19.4.4	32 mm nominal outer dia .Pipes			500.00			500.00	Mtr	271.00
	19.4.5	40 mm nominal outer dia .Pipes			770.00			770.00	Mtr	362.00
	19.4.6	50 mm nominal outer dia .Pipes.			570.00			570.00	Mtr	560.00
										319200.00
10	19.13	Providing and fixing 15 mm nominal bore Brass bib/stop cock of approved quality and weighting not less than 400 grams):								
	19.13.1	Bib cock		48				48.00	Each	185.00
										8880.00

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S. No.	SOR No.	Particular	No.	Measurement				Qty	Unit	Rate	Amount
				No.	L	B	D/H				
	19.13.3	Stop cock		48				48.00	Each	237.00	11376.00
11	19.14	Providing and fixing 15 mm nominal bore C.P. brass fittings of approved make and conforming to IS:8931 including C.P. brass extension if required:									
	19.14.3	Long body bib cock (500gms)		72				72.00	Each	426.00	30672.00
	19.14.5	Two way bib cock (800 grams)		48				48.00	Each	708.00	33984.00
	19.14.7	Angle valve for basin mixer and geyser points (450 grams)		48				48.00	Each	382.00	18336.00
	19.14.1 2	Bottle trap set with extension pipes		48				48.00	Each	473.00	22704.00
	19.14.1 5	Shower rose (revolving type) (150mm)		72				72.00	Each	269.00	19368.00
	19.14.1 8	Wall mixer (telephonic type) with crutch arrangement for hand shower (1400gms)		48				48.00	Each	1764.00	84672.00
	19.14.1 2	Bottle trap set with extension pipes		72				72.00	Each	473.00	34056.00
	19.14.1 9	Health foscet (hand jet) with flexible connection pipe (for WC)		24				24.00	Each	774.00	18576.00
12	19.15	Providing and fixing stainless steel drain jali of approved make/quality.									
				60				60.00	Each	51.00	3060.00
13	19.16	Providing and fixing brass/ gun metal gate valve with C.I. wheel of approved quality (screwed end):									
	19.16.2	32 mm nominal bore.		48				48.00	Each	510.00	24480.00
14	19.17	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :									
	19.17.2	20 mm nominal bore		16				16.00	Each	394.00	6304.00
	19.17.3	25 mm nominal bore		16				16.00	Each	432.00	6912.00
15	19.42	Providing and placing on terrace (at all floor levels) polyethylene water storage tank ISI : 12701 marked with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank									
			6	8	1000.00			48000.00	Ltr	7.30	350400.00
<b>Total Rs. :-</b>											<b>3533984.00</b>
<b>FOR 1 BLOCKS</b>											<b>3533984.00</b>
<b>To Say (In Lakh) :-</b>											<b>35.34</b>

DETAILED ESTIMATE FOR THE CONSTRUCTIONS OF GAD COLONY /OFFICE UNDER REDEVELOPMENT YOJANA AT KAILASH NAGAR RAJNANDGAON (C.G.										
H-Type 1BHK (S+6)										
S. No.	SOR No.	Particular	No.	Measurement			Qty	Unit	Rate	Amount
				No.	L	B				
		<b>Upto Plinth Lvl</b>								
1	1.2	Surface dressing of the ground including removing vegetation and making up undulations and in-equalities not exceeding 15 cms in depth/ height including disposal of rubbish upto 1.5 m lift and lead upto 50m (at least 5m away from the dressed area).								
				1	19.20	22.00				
							422.40	Sqm	7.20	3041.28
2	1.1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits.								
	1.1.1	In all types of soil								
		Foundation		36	3.10	3.10	864.90			
							<b>864.90</b>	<b>Cum</b>	185.00	160006.50
3	1.6.1	Extra for every additional lift of 1.5 m or part there of								
		Foundation		36	3.10	3.10	345.96			
							<b>345.96</b>	<b>Cum</b>	26.50	9167.94
4	1.18	Providing and filling in plinth with sand/ Crusher dust and hard moorum under floor in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering, including dressing etc. complete.								
		Footing		36	3.10	3.10	51.89			
		Plinth filling		1	17.20	20.00	344.00			
		Ground Floor Parking		1	17.20	20.00	344.00			
							<b>739.89</b>	<b>Cum</b>	371.00	274500.67
5	3.1	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.								
	3.1.2	1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size).								
		Footing PCC		36	2.70	2.70	26.24			
		Base concrete		1	240.00	Sqm	24.00			
							<b>50.24</b>	<b>Cum</b>	2659.00	133598.80
6	3.3	Providing and laying design mix reinforced cement concrete with crushed graded stone aggregate 20mm nominal size using batching plant, transit mixer and concrete pump, in all works upto plinth level excluding cost of form work.								
	3.3.2	M-25 Grade								
		Footing		36	2.50	2.50	180.00			
		Column upto plinth lvl		36	0.30	0.60	9.40			
		Plinth Beam								
		X-X Direction		4	17.20	0.20	5.50			
				2	10.40	0.20	1.66			
				4	2.80	0.20	0.90			
		Y-Y Direction		2	17.60	0.20	2.82			
				2	12.60	0.20	2.02			
				4	5.00	0.20	1.60			
				4	2.70	0.20	0.86			
							<b>204.76</b>	<b>Cum</b>	4298.00	880041.29

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S. No.	SOR No.	Particular	No.	Measurement				Qty	Unit	Rate	Amount
				No.	L	B	D/H				
7	3.12	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire in foundation and plinth all complete:									
	3.12.1	Thermo-Mechanically treated bars FE 415 D		@165Kg/Cum			204.76	33784.74	Kg	54.50	1841268.33
8	2.1	Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:									
	2.1.1	Foundations, footings, bases of columns plinth beam, curtain wall in any shape and size and all type of wall below plinth level.									
		Footing	36	10.00		0.80	288.00				
		Column upto plinth lvl	36	1.80		1.45	93.96				
		Plinth Beam									
		X-X Direction	4	17.20		1.00	68.80				
			2	10.40		1.00	20.80				
			4	2.80		1.00	11.20				
		Y-Y Direction	2	17.60		1.00	35.20				
			2	12.60		1.00	25.20				
			4	5.00		1.00	20.00				
			4	2.70		1.00	10.80				
							573.96	Sqm	139.00		79780.44
9	1.17	Filling from available excavated stuff (Excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering with a lead upto 50 M. and lift upto 1.5 M.									
		Back filling	36	12.40	0.30	2.50	334.80	Cum	65.00		21762.00
10	3.16	Making 50mm thick plinth protection of plain cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded crushed stone aggregate 20mm nominal size) over 75mm bed of dry brick ballast 40mm nominal size well rammed and consolidated and grouted with sand including finishing the top smooth.									
			1	121.00	0.60		72.60	Sqm	273.00		19819.80
		<b>Superstructure</b>									
11	3.3	Providing and laying design mix reinforced cement concrete with crushed graded stone aggregate 20mm nominal size using batching plant, transit mixer and concrete pump, in all works upto plinth level excluding cost of form work.									
	3.3.2	M-25 Grade									
		<b>Stilt Floor</b>									
		Column upto slab lvl	36	0.30	0.60	3.00	19.44				
		Slab Beam									
		X-X Direction	4	6.80	0.25	0.60	4.08				
			2	17.60	0.25	0.60	5.28				
			2	10.80	0.25	0.60	3.24				
			4	3.20	0.25	0.60	1.92				
		Y-Y Direction	4	5.40	0.25	0.60	3.24				
			2	17.80	0.25	0.60	5.34				
			2	14.00	0.25	0.60	4.20				
			4	2.80	0.25	0.60	1.68				
		Stair									
		Waist Slab	2	4.00	1.50	0.125	1.50				
		Landing	2	1.50	1.50	0.125	0.56				
		Steps	20	1.50	0.30	0.150	1.35				

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S. No.	SOR No.	Particular	No.	Measurement				Qty	Unit	Rate	Amount
				No.	L	B	D/H				
		Slab		1	240.00	Sqm	0.150	36.00			
								<b>87.83</b>	<b>cum</b>		
		<b>First Floor</b>									
		Column upto slab lvl		36	0.30	0.60	3.20	20.74			
		Slab Beam									
		X-X Direction		4	6.80	0.25	0.60	4.08			
				2	17.60	0.25	0.60	5.28			
				2	10.80	0.25	0.60	3.24			
				4	3.20	0.25	0.60	1.92			
		Y-Y Direction		4	5.40	0.25	0.60	3.24			
				2	17.80	0.25	0.60	5.34			
				2	14.00	0.25	0.60	4.20			
				4	2.80	0.25	0.60	1.68			
		Lintel Beam									
		X-X Direction		4	6.80	0.20	0.20	1.09			
				2	17.60	0.20	0.20	1.41			
				4	10.80	0.20	0.20	1.73			
				4	3.20	0.20	0.20	0.51			
		Y-Y Direction		4	5.40	0.20	0.20	0.86			
				4	17.80	0.20	0.20	2.85			
				4	14.00	0.20	0.20	2.24			
				4	2.80	0.20	0.20	0.45			
		Chhajja		4	1.10	0.60	0.10	0.26			
				4	1.60	0.60	0.10	0.38			
				4	0.90	0.60	0.10	0.22			
				4	1.50	0.60	0.10	0.36			
				2	1.60	0.60	0.10	0.19			
		Kitchen Plateform		4	4.20	0.60	0.125	1.26			
		Stair									
		Waist Slab		2	4.00	1.50	0.125	1.50			
		Landing		2	1.50	1.50	0.125	0.56			
		Steps		20	1.50	0.30	0.150	1.35			
		Slab		1	240.00	Sqm	0.150	36.00			
		<b>First Floor Total Qty</b>						<b>102.94</b>	<b>Cum</b>		
		2nd Floor Qty						102.94			
		3rd Floor Qty						102.94			
		4th Floor Qty						102.94			
		5th Floor Qty						102.94			
		6th Floor Qty						102.94			
		Mumty									
		Column		4	0.30	0.60	3.20	2.30			
		Slab Beam		2	4.00	0.25	0.60	1.20			
				2	5.50	0.25	0.60	1.65			
		Mumty Slab		1	6.00	7.50	0.125	5.63			
		Column Above Roof Slab		32	0.30	0.60	0.90	5.18			
		Parapet Coping		1	121.00	0.20	0.075	1.82			
								<b>635.42</b>	<b>Cum</b>	4298.00	2731039.46
12	3.4	Extra for laying PCC/RCC of any grade in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth:									
		Stilt Floor						87.83	Cum	97.50	8563.67
		1st Floor Total Qty						102.94	Cum	195.00	20073.40
		2nd Floor Qty						102.94	Cum	292.50	30110.10
		3rd Floor Qty						102.94	Cum	390.00	40146.80
		4th Floor Qty						102.94	Cum	487.50	50183.49
		5th Floor Qty						102.94	Cum	585.00	60220.19
		6th Floor Qty						102.94	Cum	682.50	70256.89
		Mumty						15.96	Cum	780.00	12451.14

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S. No.	SOR No.	Particular	No.	Measurement				Qty	Unit	Rate	Amount
				No.	L	B	D/H				
13	3.12	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire in foundation and plinth all complete:									
	3.12.1	Thermo-Mechanically treated bars FE 415 D		@165Kg/Cum			635.42	<b>104844.47</b>	<b>Kg</b>	54.50	5714023.34
14	3.1	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.									
	3.1.4	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 40mm nominal size).									
		Slab Grading	1	240.00	Sqm	0.05	12.00	Cum	3552.00		42624.00
15	2.1	Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:									
	2.1.5	Columns, Pillars, Piers and likes- rectangular or square in shape									
		Stilt Column	36	1.80		3.20	207.36				
		<b>First Floor Total Qty</b>					<b>207.36</b>	<b>Sqm</b>			
		2nd Floor Qty					207.36				
		3rd Floor Qty					207.36				
		4th Floor Qty					207.36				
		5th Floor Qty					207.36				
		6th Floor Qty					207.36				
		Mumty Column	4	1.80		3.20	92.16				
		Column Above Roof Slab	32	1.80		0.90	207.36				
							<b>1751.04</b>	<b>Sqm</b>	297.00		520058.88
	2.1.7	Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)									
		Stilt Slab	1	240.00	Sqm		240.00				
		<b>First Floor Total Qty</b>					<b>240.00</b>	<b>Sqm</b>			
		2nd Floor Qty					240.00				
		3rd Floor Qty					240.00				
		4th Floor Qty					240.00				
		5th Floor Qty					240.00				
		6th Floor Qty					240.00				
		Mumty Slab	1	6.00	7.50		45.00				
							<b>1725.00</b>	<b>Sqm</b>	235.00		405375.00
	2.1.8	Beams, lintels, cantilevers & walls									
		<b>Stilt Level</b>									
		Slab Beam									
		X-X Direction	4	6.80	0.20	0.60	38.08				
			2	17.60	0.20	0.60	49.28				
			2	10.80	0.20	0.60	30.24				
			4	3.20	0.20	0.60	17.92				
		Y-Y Direction	4	5.40	0.20	0.60	30.24				
			2	17.80	0.20	0.60	49.84				
			2	14.00	0.20	0.60	39.20				
			4	2.80	0.20	0.60	15.68				
							<b>270.48</b>	<b>sqm</b>			
		First Floor									
		Slab Beam									
		X-X Direction	4	6.80		0.60	16.32				
			2	17.60		0.60	21.12				
			2	10.80		0.60	12.96				
			4	3.20		0.60	7.68				

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S. No.	SOR No.	Particular	No.	Measurement				Qty	Unit	Rate	Amount
				No.	L	B	D/H				
				4	5.40		0.60	12.96			
		Y-Y Direction		2	17.80		0.60	21.36			
				2	14.00		0.60	16.80			
				4	2.80		0.60	6.72			
		Lintel Beam									
		X-X Direction		4	6.80		0.40	10.88			
				2	17.60		0.40	14.08			
				4	10.80		0.40	17.28			
				4	3.20		0.40	5.12			
		Y-Y Direction		4	5.40		0.40	8.64			
				4	17.80		0.40	28.48			
				4	14.00		0.40	22.40			
				4	2.80		0.40	4.48			
		<b>First Floor Total Qty</b>						<b>227.28</b>	<b>Sqm</b>		
		2nd Floor Qty						227.28			
		3rd Floor Qty						227.28			
		4th Floor Qty						227.28			
		5th Floor Qty						227.28			
		6th Floor Qty						227.28			
		Mumty Slab Beam		2	4.00		1.45	11.60			
				2	5.50		1.45	15.95			
								<b>1661.71</b>	<b>Sqm</b>	202.00	335665.42
	2.1.13	Weather shade, chhajja, Cornices and mouldings									
		Chhajja		4	1.10	0.60		2.64			
				4	1.60	0.60		3.84			
				4	0.90	0.60		2.16			
				4	1.50	0.60		3.60			
				2	1.60	0.60		1.92			
		Kitchen Platform		4	4.20	0.60		10.08			
		<b>First Floor Total Qty</b>						<b>24.24</b>	<b>Sqm</b>		
		2nd Floor Qty						24.24			
		3rd Floor Qty						24.24			
		4th Floor Qty						24.24			
		5th Floor Qty						24.24			
		6th Floor Qty						24.24			
								<b>145.44</b>	<b>Sqm</b>	294.00	42759.36
	2.1.15	Stair cases of all types excluding spiral and folded plate type, including risers and landings									
		<b>Stilt Stair</b>									
		Waist Slab		2	4.00	1.50		12.00			
		Landing		2	1.50	1.50		4.50			
		sides		4	4.00		0.125	2.00			
		Risers		20	1.50	0.15		4.50			
		Treads		20	1.50		0.30	9.00			
								<b>32.00</b>			
		<b>First Floor Total Qty</b>						<b>32.00</b>	<b>Sqm</b>		
		2nd Floor Qty						32.00			
		3rd Floor Qty						32.00			
		4th Floor Qty						32.00			
		5th Floor Qty						32.00			
		6th Floor Qty						32.00			
								<b>224.00</b>	<b>Sqm</b>	230.00	51520.00

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S. No.	SOR No.	Particular	No.	Measurement				Qty	Unit	Rate	Amount
				No.	L	B	D/H				
16	4.5	Providing and laying water proofing treatment in sunken portion of WCs, bathroom, kitchen etc., by applying cement slurry mixed with water proofing cement compound consisting of following applications including surface preparation: i) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm. This layer will be allowed to air cure for 4 hours. ii) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound @ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours. The rate includes treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry.									
		Toilets	6	8	1.60	1.50		115.20			
								<b>115.20</b>	<b>Sqm</b>	182.00	20966.40
17	7.5	Brick work with modular fly-ash lime bricks (FaLG Bricks) confirming to IS:12894-2002 of class designation 4.0 in foundation and plinth in:									
	7.5.4	Cement Mortar 1:6 (1 cement : 6 coarse sand)									
		<b>First Floor</b>									
		Wall									
		X-X Direction	4		5.80	0.20	2.60	12.06			
			4		2.80	0.20	2.60	5.82			
			4		3.70	0.20	2.60	7.70			
			4		1.00	0.20	2.60	2.08			
			4		1.30	0.20	2.60	2.70			
			1		3.00	0.20	2.60	1.56			
		Y-Y Direction	4		5.00	0.20	2.60	10.40			
			4		1.30	0.20	2.60	2.70			
			4		1.70	0.20	2.60	3.54			
			4		5.70	0.20	2.60	11.86			
			4		2.70	0.20	2.60	5.62			
		Deductions									
		D1	1		1.20	0.20	2.40	-0.58			
		D2	2		1.00	0.20	2.40	-0.96			
		D3	1		0.90	0.20	2.40	-0.43			
		D4	2		0.75	0.20	2.10	-0.63			
		W	2		1.80	0.20	1.65	-1.19			
		W1	2		1.50	0.20	1.65	-0.99			
		W2	1		1.30	0.20	1.65	-0.43			
		KW	1		0.80	0.20	1.20	-0.19			
		V1	2		0.60	0.20	0.60	-0.14			
		<b>First Floor Total Qty</b>						<b>60.50</b>	<b>Cum</b>		
		2nd Floor Qty						60.50			
		3rd Floor Qty						60.50			
		4th Floor Qty						60.50			
		5th Floor Qty						60.50			
		6th Floor Qty						60.50			
		Mumty Wall	2		5.10	0.20	2.60	5.30			
			2		3.00	0.20	2.60	3.12			
		Parapet Wall	1		121.00	0.20	0.90	21.78			
								<b>393.20</b>	<b>Cum</b>	3263.00	1283005.07
18	7.6	Extra for brick work in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth:								121.00	
		<b>First Floor Total Qty</b>						60.50	Cum	242.00	14640.76

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S. No.	SOR No.	Particular	No.	Measurement				Qty	Unit	Rate	Amount
				No.	L	B	D/H				
		2nd Floor Qty						60.50	Cum	363.00	21961.14
		3rd Floor Qty						60.50	Cum	484.00	29281.52
		4th Floor Qty						60.50	Cum	605.00	36601.90
		5th Floor Qty						60.50	Cum	726.00	43922.27
		6th Floor Qty						60.50	Cum	847.00	51242.65
		Mumty Wall						30.20	Cum	968.00	29237.47
19	7.11	Half brick thick brick masonry with fly-ash lime bricks (FaLG Bricks) confirming to IS:12894-2002 of class designation 4.0 in superstructure above plinth level upto plinth level:									
	7.11.2	Cement Mortar 1:4 (1 cement : 4 coarse sand)									
		Inner Wall	4	3.60		2.60		37.44			
			4	2.30		2.60		23.92			
			4	1.50		2.60		15.60			
			4	3.40		2.60		35.36			
			4	1.50		2.60		15.60			
			4	1.00		2.60		10.40			
			4	1.60		2.60		16.64			
		<b>First Floor Total Qty</b>						<b>154.96</b>	<b>Sqm</b>		
		2nd Floor Qty						154.96			
		3rd Floor Qty						154.96			
		4th Floor Qty						154.96			
		5th Floor Qty						154.96			
		6th Floor Qty						154.96			
								<b>929.76</b>	<b>Sqm</b>	382.00	355168.32
20	7.12	Extra for half brick work in superstructure above plinth level for every story or part thereof in addition to rate for upto plinth level:								11.00	
		<b>First Floor Total Qty</b>						154.96	Sqm	22.00	3409.12
		2nd Floor Qty						154.96	Sqm	33.00	5113.68
		3rd Floor Qty						154.96	Sqm	44.00	6818.24
		4th Floor Qty						154.96	Sqm	55.00	8522.80
		5th Floor Qty						154.96	Sqm	66.00	10227.36
		6th Floor Qty						154.96	Sqm	77.00	11931.92
21	7.2	Extra for providing and placing in position hopping 25x1.60 mm or 2 Nos 6mm dia MS bars reinforcement at every third course of half brick masonry.									
		First Floor Total Qty						464.88			
		2nd Floor Qty						464.88			
		3rd Floor Qty						464.88			
		4th Floor Qty						464.88			
		5th Floor Qty						464.88			
		6th Floor Qty						464.88			
								<b>2789.28</b>	<b>SQM</b>	62.50	174330.00
22	11.1	Providing and making 6mm thick cement plaster of mix:									
	11.1.2	In Cement mortar 1:4 (1 cement : 4 fine sand)									
		Chhajja						24.24			
		Slab Area						240.00			
		Add 20% unseen or Beam Offset						52.85			
		<b>First Floor Total Qty</b>						<b>317.09</b>	<b>Sqm</b>		
		2nd Floor Qty						317.09			
		3rd Floor Qty						317.09			
		4th Floor Qty						317.09			
		5th Floor Qty						317.09			
		6th Floor Qty						317.09			

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S. No.	SOR No.	Particular	No.	Measurement				Qty	Unit	Rate	Amount
				No.	L	B	D/H				
		Mumty Slab						45.00			
								<b>1947.53</b>	<b>Sqm</b>	87.00	169434.94
23	11.2	Providing and making 12mm thick cement plaster of mix:									
	11.2.3	In Cement Mortar 1:5 (1 cement : 5 fine sand)									
		Wall		4	5.80		3.20	74.24			
				4	2.80		3.20	35.84			
				4	3.70		3.20	47.36			
				4	1.00		3.20	12.80			
				4	1.30		3.20	16.64			
				1	3.00		3.20	9.60			
				4	5.00		3.20	64.00			
				4	1.30		3.20	16.64			
				4	1.70		3.20	21.76			
				4	5.70		3.20	72.96			
				4	2.70		3.20	34.56			
		Inner Wall		4	3.60		3.20	46.08			
				4	2.30		3.20	29.44			
				4	1.50		3.20	19.20			
				4	3.40		3.20	43.52			
				4	1.50		3.20	19.20			
				4	1.00		3.20	12.80			
				4	1.60		3.20	20.48			
		Deductions									
		D1		1	1.20		2.40	-2.88			
		D2		2	1.00		2.40	-4.80			
		D3		1	0.90		2.40	-2.16			
		D4		2	0.75		2.10	-3.15			
		W		2	1.80		1.65	-5.94			
		W1		2	1.50		1.65	-4.95			
		W2		1	1.30		1.65	-2.15			
		KW		1	0.80		1.20	-0.96			
		V1		2	0.60		0.60	-0.72			
		<b>First Floor Total Qty</b>						<b>569.42</b>	<b>Sqm</b>		
		2nd Floor Qty						569.42			
		3rd Floor Qty						569.42			
		4th Floor Qty						569.42			
		5th Floor Qty						569.42			
		6th Floor Qty						569.42			
		Mumty Wall		4	5.10		3.20	65.28			
				4	3.00		3.20	38.40			
		Parapet Wall		2	121.00		0.90	217.80			
								<b>3737.97</b>	<b>Sqm</b>	96.50	360714.11
24	11.3	Providing and making 15mm thick cement plaster on the rough side of single or half brick wall of mix:									
	11.3.3	In Cement Mortar 1:5 (1 cement : 5 fine sand)									
		<b>First Floor Total Qty</b>						569.42			
		2nd Floor Qty						569.42			
		3rd Floor Qty						569.42			
		4th Floor Qty						569.42			
		5th Floor Qty						569.42			
		6th Floor Qty						569.42			
								<b>3416.49</b>	<b>Sqm</b>	113.00	386063.37

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S. No.	SOR No.	Particular	No.	Measurement				Qty	Unit	Rate	Amount
				No.	L	B	D/H				
25	11.8	Providing and making 18mm thick cement plaster in two coats with under layer of 12mm thick plaster 1:5 (1 cement : 5 fine sand) and top layer of 6mm thick with cement plaster 1:3 (1 cement : 3 fine sand) finished rough with sponge									
		Outer Wall		1	152.00		3.10	471.20			
		For Elevation		12	0.80		3.10	29.76			
				6	1.00		3.10	18.60			
		<b>First Floor Total Qty</b>						<b>519.56</b>	<b>Sqm</b>		
		2nd Floor Qty						519.56			
		3rd Floor Qty						519.56			
		4th Floor Qty						519.56			
		5th Floor Qty						519.56			
		6th Floor Qty						519.56			
								<b>3117.36</b>	<b>Sqm</b>	167.00	520599.12
26	11.10	Providing and mixing in cement mortar, triangular polyester fiber Recron 3s (Anti-shrinkage Admixture) of 6 mm length of approved make like Reliance industries Ltd etc. in proportion as recommended by manufacturer.						<b>40.40</b>	<b>kg</b>	366.00	14786.76
27	11.11	Extra for plastering of exterior walls when height exceeds 10m above ground level for every additional height of 3.0m or part thereof.									
		3rd Floor Qty						519.56	sqm	22.50	11690.10
		4th Floor Qty						519.56	sqm	45.00	23380.20
		5th Floor Qty						519.56	sqm	67.50	35070.30
		6th Floor Qty						519.56	sqm	90.00	46760.40
28	11.40	Making grove in cement plaster while plastering upto 10 mm deep and 10 mm wide.									
				150	156.00			23400.00	Mtr	1.30	30420.00
29	11.13	Extra for plastering done on mouldings, cornices or architraves including neat finish to line and level.		150	1.60	0.85		204.00	SQM	134.00	27336.00
30	11.41	Providing and fixing chicken mesh weighting not less than 250 gms/ sqm as per IS : specification in the required width with 40mm long steel nails on vertical and horizontal surface near R.C.C. and brick walls junctions including scaffolding and all lead and lifts etc. complete before plastering upto 10mts in height.									
		Stilt Floor									
		Column		36	0.3		3.00	32.40			
		Slab Beam		1	193.2	0.30		57.96			
		<b>First Floor Total Qty</b>						<b>90.36</b>	<b>Sqm</b>		
		2nd Floor Qty						90.36			
		3rd Floor Qty						90.36			
		4th Floor Qty						90.36			
		5th Floor Qty						90.36			
		6th Floor Qty						90.36			
								<b>542.16</b>	<b>Sqm</b>	86.00	46625.76

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S. No.	SOR No.	Particular	No.	Measurement				Qty	Unit	Rate	Amount
				No.	L	B	D/H				
31	9.57	Providing stainless steel railing/ grill made of S.S. flats, hollow S.S. pipe or square/ rectangular sections of approved design fixing in stair case, balcony or other places with metal fasteners and stainless steel bolts etc complete.									
	9.57.1	SS Grade 204									
		Balcony Railing	4	6.55		1.00		26.20			
		Stair Railing	2	3.10		1.00		6.20			
		Entrance Railing	1	1.20		1.00		1.20			
								<b>33.60</b>	<b>Sqm</b>		
		<b>First Floor Total Qty</b>					@15Kg/Sqm	<b>504.00</b>	<b>Kg</b>		
		2nd Floor Qty						504.00			
		3rd Floor Qty						504.00			
		4th Floor Qty						504.00			
		5th Floor Qty						504.00			
		6th Floor Qty						504.00			
								<b>3024.00</b>	<b>Kg</b>	467.00	1412208.00
32	Ammen dment No. 04 12.79	Providing and laying DOUBLE/MULTI CHARGE (minimum 2.0 mm thick laying) VIRTRIFIED floor tiles with water absorption less then 0.05% and conforming to IS: 15622-2017 of 1st quality of approved make in all colors and shades and size mentioned below (+/- 10 mm), laid on 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including pointing the joints with white cement and matching pigments etc. complete.									
	12.79.2	Size 800x800mrn thickness 9 to 10mm									
		Living Hall	4	3.20	4.60			58.88			
		Hall Lobby	4	1.60	2.60			16.64			
		Bedroom	4	3.30	3.00			39.60			
		Kitchen	4	2.00	2.40			19.20			
		Balcony	4	3.50	1.20			16.80			
		20% Extra for skirting						30.22			
		<b>First Floor Total Qty</b>						<b>181.34</b>	<b>Sqm</b>		
		2nd Floor Qty						181.34			
		3rd Floor Qty						181.34			
		4th Floor Qty						181.34			
		5th Floor Qty						181.34			
		6th Floor Qty						181.34			
								<b>1088.06</b>	<b>Sqm</b>	1343.00	1461269.95
33	12.9	Providing and laying ceramic glazed floor tiles conforming to IS : 15622 of approved size, make, colour, shade laid on 20 mm thick Cement Mortar 1:4 (1 cement : 4 coarse sand) including pointing the joints with white cement mixed with matching pigment etc., complete.									
		Stilt Parking						<b>360.00</b>	<b>sqm</b>	692.00	249120.00
34	Ammen dment No. 04 12.75	Providing and fixing rectified glazed ceramic wall/dado tiles of 1st quality conforming to IS : 15622-2017 of approved make, in all colours, shades on wall and dados over 12 mm thick bed of cement Mortar 1 :3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with matching pigment complete.									
	12.75.3	Size 400x800mm thickness 7 to 9mm									
		Toilet Wall	4	2	1.60		2.10	53.76			

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S. No.	SOR No.	Particular	No.	Measurement				Qty	Unit	Rate	Amount
				No.	L	B	D/H				
			4	2	1.50		2.10	50.40			
		Toilet	4	2	1.40		2.10	47.04			
			4	2	1.00		2.10	33.60			
		<b>First Floor Total Qty</b>						<b>184.80</b>	<b>Sqm</b>		
		2nd Floor Qty						184.80			
		3rd Floor Qty						184.80			
		4th Floor Qty						184.80			
		5th Floor Qty						184.80			
		6th Floor Qty						184.80			
								<b>1108.80</b>	<b>Sqm</b>	897.00	994593.60
35	Ammen dment No. 04 12.74	Providing and fixing rectified glazed ceramic Floor tiles of 1st quality conforming to IS : 15622-2017 of approved make, in all colours, shades over 20 mm thick bed of cement Mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with matching pigment complete.									
	12.74.2	Size 400x400mm thickness 7 to 8mm									
		Toilet Floor	4	1	1.60	1.50		9.60			
			4	1	1.40	1.00		5.60			
		<b>First Floor Total Qty</b>						<b>15.20</b>	<b>Sqm</b>		
		2nd Floor Qty						15.20			
		3rd Floor Qty						15.20			
		4th Floor Qty						15.20			
		5th Floor Qty						15.20			
		6th Floor Qty						15.20			
								<b>91.20</b>	<b>Sqm</b>	826.00	75331.20
36	12.46	15 mm thick Table rubbed polished Granite stone slab in risers and treads of step skirting dado and pillars laid on 12mm (Average) thick base of cement mortar 1:3 (1 cement : 3 coarse sand) and jointed with grey cement slurry including rubbing and polishing etc. complete(single stone is to be used for risers and treads of steps and width of stone for skirting and dado shall be equal to the height of skirting & dado and length of 1.0 m).									
	12.46.2	Granite stone black									
		Stilt									
		Stair									
		Landing	2		1.50	1.50		4.50			
		Risers	20		1.50	0.15		4.50			
		Treads	20		1.50		0.30	9.00			
		Kitchen Platform	4		4.20	0.60		10.08			
			4		4.20		0.15	2.52			
		Corridor	1		6.80	3.90		26.52			
							Total	<b>57.12</b>	<b>sqm</b>		
		<b>First Floor Total Qty</b>						<b>57.12</b>	<b>Sqm</b>		
		2nd Floor Qty						57.12			
		3rd Floor Qty						57.12			
		4th Floor Qty						57.12			
		5th Floor Qty						57.12			
		6th Floor Qty						57.12			
								<b>399.84</b>	<b>Sqm</b>	2719.00	1087164.96

# PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S. No.	SOR No.	Particular	No.	Measurement				Qty	Unit	Rate	Amount
				No.	L	B	D/H				
37	Ammen dment No. 01 12.9.3	Crazy ceramic tile flooring, with under layer 12 mm thick cement mortar 1:4 (1 cement:4 coarse sand), with joints not exceeding 5 mm, including tilling the gaps with ordinary cement mixture & mixing with synthetic polyester fibre, triangular in shape having specific gravity of 1.34 to 1.40, cross section size ranging from 10 to 40 micron & length upto 6 mm, mixing fibre @ 125 grams per 50 kg of cement in cement mortar, including providing and mixing water proofing material in mortar @ 1 kg per 50 kg of cement, all complete as per direction of Engineer-in-charge.									
		Terrace		1	240.00	Sqm		240.00	Sqm	386.00	92640.00
38	CG PWD BUILD SOR 2015 AMM 08 14.56	Providing and applying <b>2mm thick</b> polymeric Exterior grade white cement based Putty with minimum 3 coats applied @ 5.4 kg/ 10Sqm as per relevant IS code 17545:2021 (Product such as Birla wall care, Asian trucare, JK wall putty, Berger Bison wall putty) to make the surface smooth and even with all tools tackles and labour etc. complete for the work.									
		Quantity of 6mm Plaster						1947.53			
		Quantity of 12mm Plaster						3737.97			
		Quantity of 15mm Plaster						3416.49			
								<b>9101.99</b>	<b>Sqm</b>	86.00	782770.97
39	CG PWD BUILD SOR 2015 AMM 08 14.64	Providing and applying <b>Premium plastic emulsion paint</b> with roller application minimum three coats applied @ 0.75 lit / 10Sqm up to final finish as per relevant I.S. Code 15489:2013 Type -I Class D & C ( Glossy and Semi Glossy Finish) of required shade (Product such as Asian Apcolite Premium , Dulux Super Cover, Berger Easy Clean Nippon Breezee Metex Gold, Opus I-50 / Calista) inclusive of providing abro tape on edges and article and cleaning of door, windows, floor and surface as required with all tools tackles and labour etc. complete for the work.(with 3 year Warranty)									
	14.10.1	On new work (two or more coats)									
		Quantity of 6mm Plaster						1947.53			
		Quantity of 12mm Plaster						3737.97			
								<b>5685.50</b>	<b>Sqm</b>	84.00	477581.83
40	CG PWD BUILD SOR 2015 AMM 08 14.70	Providing and applying acrylic modified resin <b>EXTERIOR TEXTURED</b> with special quality silica quartz plaster as an intermediate coating on external surface giving protective layer and decorative finish on plastered surface in approved design and shade (product such as Asian Apex Series Duracast Dulux weathersheald sandtax creation) as per manufacturer's specifications inclusive of providing abro tape on edges and article and cleaning of door, windows, floor and surface as required with all tools tackles and labour etc.complete for the work.									
		Quantity of 15mm Plaster						3416.49			
								<b>3416.49</b>	<b>Sqm</b>	439.00	1499839.11
		<b>Door &amp; Window</b>									

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S. No.	SOR No.	Particular	No.	Measurement				Qty	Unit	Rate	Amount
				No.	L	B	D/H				
41	8.12	Providing and fixing flush door shutters, conforming to IS : 2202 (Part-I), decorative type core of block board construction with frame of first class hard wood and well matched teak ply veneering with vertical grains or cross bands and face veneers on both faces of shutters excluding hinges.									
	8.12.2	35 mm. thick (single leaf)									
		D1	4	1	1.20		2.40	11.52			
		D2	4	2	1.00		2.40	19.20			
		D3	4	1	0.90		2.40	8.64			
		<b>First Floor Total Qty</b>						<b>39.36</b>	<b>Sqm</b>		
		2nd Floor Qty						39.36			
		3rd Floor Qty						39.36			
		4th Floor Qty						39.36			
		5th Floor Qty						39.36			
		6th Floor Qty						39.36			
		Mumty Door D1		1	1.20		2.40	2.88			
								<b>239.04</b>	<b>Sqm</b>	2005.00	479275.20
42	8.1	Providing wood work in frames of doors windows, clerestory windows and other frames wrought framed and fixed in position.									
	8.1.2	Sal, bijasal, benteak, chair, haldu									
		D1	4	1	6.00	0.075	0.125	0.23			
		D2	4	2	5.80	0.075	0.125	0.44			
		D3	4	1	5.70	0.075	0.125	0.21			
		<b>First Floor Total Qty</b>						<b>0.87</b>	<b>Cum</b>		
		2nd Floor Qty						0.87			
		3rd Floor Qty						0.87			
		4th Floor Qty						0.87			
		5th Floor Qty						0.87			
		6th Floor Qty						0.87			
		Mumty Door D1		1	6.00	0.075	0.125	0.06			
								<b>5.30</b>	<b>Cum</b>	61051.00	323493.99
43	14.25	Providing and laying French sprit polish on new wood work after preparing the surface by rubbing down smooth with sand papers, covering the knots, if visible applying a coat of wood filler cleaning the surface applying 50 or more coats of French spirit polish till the surface gives high gloss.									
								39.36			
		<b>First Floor Total Qty</b>						<b>39.36</b>	<b>Sqm</b>		
		2nd Floor Qty						39.36			
		3rd Floor Qty						39.36			
		4th Floor Qty						39.36			
		5th Floor Qty						39.36			
		6th Floor Qty						39.36			
		Mumty Door D1						2.88			
								<b>239.04</b>	<b>Sqm</b>	143.00	34182.72
44	8.58	Providing and fixing bright finished brass butt hinges with brass polished MS screws complete.									
	8.58.1	125x85x5.50 mm (Heavy Type)									
		D1	4	1	4.00			16.00			
		D2	4	2	4.00			32.00			
		D3	4	1	4.00			16.00			
		<b>First Floor Total Qty</b>						<b>64.00</b>	<b>Each</b>		
		2nd Floor Qty						64.00			
		3rd Floor Qty						64.00			
		4th Floor Qty						64.00			

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S. No.	SOR No.	Particular	No.	Measurement				Qty	Unit	Rate	Amount
				No.	L	B	D/H				
		5th Floor Qty						64.00			
		6th Floor Qty						64.00			
								<b>384.00</b>	<b>Each</b>	437.00	167808.00
45	8.139	Providing and fixing stainless steel tower bolts (Barrel type) with necessary stainless steel screws etc complete.									
	8.139.1	250x10mm									
		D1	4	1	2.00			8.00			
		D2	4	2	2.00			16.00			
		D3	4	1	2.00			8.00			
		<b>First Floor Total Qty</b>						<b>32.00</b>	<b>Each</b>		
		2nd Floor Qty						32.00			
		3rd Floor Qty						32.00			
		4th Floor Qty						32.00			
		5th Floor Qty						32.00			
		6th Floor Qty						32.00			
								<b>192.00</b>	<b>Each</b>	97.00	18624.00
46	8.140	Providing and fixing stainless steel door handles having flap thickness 2.5mm, necessary stainless steel screws etc complete.									
	8.140.2	125 mm									
		D1	4	1	2.00			8.00			
		D2	4	2	2.00			16.00			
		D3	4	1	2.00			8.00			
		<b>First Floor Total Qty</b>						<b>32.00</b>	<b>Each</b>		
		2nd Floor Qty						32.00			
		3rd Floor Qty						32.00			
		4th Floor Qty						32.00			
		5th Floor Qty						32.00			
		6th Floor Qty						32.00			
								<b>192.00</b>	<b>Each</b>	22.50	4320.00
47	8.138	Providing and fixing S.S. door latch with 12mm rod necessary nickel plated iron nuts bolts and screws etc complete.									
	8.138.2	250mm									
		D1	4	1	2.00			8.00			
		D2	4	2	2.00			16.00			
		D3	4	1	2.00			8.00			
		<b>First Floor Total Qty</b>						<b>32.00</b>	<b>Each</b>		
		2nd Floor Qty						32.00			
		3rd Floor Qty						32.00			
		4th Floor Qty						32.00			
		5th Floor Qty						32.00			
		6th Floor Qty						32.00			
								<b>192.00</b>	<b>Each</b>	85.00	16320.00
48	8.137	Providing and fixing stainless steel sliding door bolts with 16mm rod, 2.5mm thick flap, necessary stainless steel nuts bolts and screws etc.complete									
	8.137.2	250mm									
		D1	4	1	2.00			8.00			
		D2	4	2	2.00			16.00			
		D3	4	1	2.00			8.00			
		<b>First Floor Total Qty</b>						<b>32.00</b>	<b>Each</b>		
		2nd Floor Qty						32.00			
		3rd Floor Qty						32.00			
		4th Floor Qty						32.00			
		5th Floor Qty						32.00			
		6th Floor Qty						32.00			
								<b>192.00</b>	<b>Each</b>	228.00	43776.00

## PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S. No.	SOR No.	Particular	No.	Measurement				Qty	Unit	Rate	Amount
				No.	L	B	D/H				
49	8.143	Providing and fixing stainless steel hanging door stopper with necessary stainless steel screws complete.									
	8.143.2	Single									
		D1	4	1				4.00			
		D2	4	2				8.00			
		D3	4	1				4.00			
		<b>First Floor Total Qty</b>						<b>16.00</b>	<b>Each</b>		
		2nd Floor Qty						16.00			
		3rd Floor Qty						16.00			
		4th Floor Qty						16.00			
		5th Floor Qty						16.00			
		6th Floor Qty						16.00			
								<b>96.00</b>	<b>Each</b>	65.00	6240.00
50	8.160	Providing and fixing expandable fasteners of specified size with necessary plastic sleeves and galvanized M.S screws including drilling holes in masonry work /CC/ R.C.C by drilling machine and making good etc complete.									
	8.160.4	50 mm long									
		D1	4	1	4.00			16.00			
		D2	4	2	4.00			32.00			
		D3	4	1	4.00			16.00			
		<b>First Floor Total Qty</b>						<b>64.00</b>	<b>Each</b>		
		2nd Floor Qty						64.00			
		3rd Floor Qty						64.00			
		4th Floor Qty						64.00			
		5th Floor Qty						64.00			
		6th Floor Qty						64.00			
								<b>384.00</b>	<b>Each</b>	30.00	11520.00
51	8.3	Providing 40x5mm iron hold fast 40cm long including fixing to frame with 10mm bolts nuts and wooden plug and embedding in Cement Concrete 1:2:4 in blocks of size 30x10x15cm.									
		D1	4	1	3.00			12.00			
		D2	4	2	3.00			24.00			
		D3	4	1	3.00			12.00			
		<b>First Floor Total Qty</b>						<b>48.00</b>	<b>Each</b>		
		2nd Floor Qty						48.00			
		3rd Floor Qty						48.00			
		4th Floor Qty						48.00			
		5th Floor Qty						48.00			
		6th Floor Qty						48.00			
								<b>288.00</b>	<b>Each</b>	72.50	20880.00

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S. No.	SOR No.	Particular	No.	Measurement				Qty	Unit	Rate	Amount
				No.	L	B	D/H				
52	8.152	Providing and fixing 30mm thick factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19mm x 19mm for styles and 15x15mm for top & bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture . M.S. frame covered with 5mm thick heat moulded PVC 'C' channel of size 30mm thickness, 70mm width out of which 50mm shall be flat and 20mm shall be tapered in 45degree angle on either side forming styles; and 5mm thick, 95mm wide PVC sheet out of which 75mm shall be flat and 20mm shall be tapered in 45 degree on the inner side to form top and bottom rail and 115mm wide PVC sheet out of which 75mm shall be flat and 20mm shall be tapered on both sides to form lock rail. Top, bottom and lock rails shall be provided either side of the panel. 10mm (5mm x 2 ) thick, 20mm wide cross PVC sheet be provided as gap insert for top rail & bottom rail. paneling of 5mm thick both									
	8.152.2	Both side Pre-laminated panel PVC door shutter									
		D4	4	2	0.75		2.10	12.60			
		<b>First Floor Total Qty</b>						<b>12.60</b>	<b>Sqm</b>		
		2nd Floor Qty						12.60			
		3rd Floor Qty						12.60			
		4th Floor Qty						12.60			
		5th Floor Qty						12.60			
		6th Floor Qty						12.60			
								<b>75.60</b>	<b>Sqm</b>	2832.00	214099.20
53	8.151	Providing and fixing factory made P.V.C. door frame of size 50x47mm with a wall thickness of 5mm, made out of extruded 5mm rigid PVC foam sheet mitred at corners and joined with 2 Nos of 150mm long brackets of 15x15mm M.S. square tube, the vertical door profiles to be reinforced with 19x19mm M.S. square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame. The door frame to be fixed to the wall using M.S. screws of 65/100mm size complete as per manufacturers specification and direction of Engineer-in-Charge.									
		D4	4	2	5.70			45.60			
		<b>First Floor Total Qty</b>						<b>45.60</b>	<b>Mtr</b>		
		2nd Floor Qty						45.60			
		3rd Floor Qty						45.60			
		4th Floor Qty						45.60			
		5th Floor Qty						45.60			
		6th Floor Qty						45.60			
								<b>273.60</b>	<b>Mtr</b>	346.00	94665.60
54	9.15	Providing and fixing M.S. grill of approved pattern made of M.S. flats or square or round bars welded to steel frame of windows etc. including applying a priming coat welded to frame with all necessary fitting complete including applying a priming of red oxide zinc chromate primer.									
		W	1	2	1.80		1.65	5.94			
		W1	4	2	1.50		1.65	19.80			

# PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S. No.	SOR No.	Particular	No.	Measurement				Qty	Unit	Rate	Amount
				No.	L	B	D/H				
		W2	4	1	1.30		1.65	8.58			
		KW	4	1	0.80		1.20	3.84			
		V1	4	2	0.60		0.60	2.88			
								<b>41.04</b>	<b>Sqm</b>		
		<b>First Floor Total Qty</b>			16 kg per sqm			<b>656.64</b>	<b>Kg</b>		
		2nd Floor Qty						656.64			
		3rd Floor Qty						656.64			
		4th Floor Qty						656.64			
		5th Floor Qty						656.64			
		6th Floor Qty						656.64			
					TOTAL			<b>3939.84</b>	<b>kg</b>		
		Mumty Window W		1	1.80		1.65	2.97			
		Duct Grill		4	1.90		10.00	76.00			
					16 kg per sqm			<b>1263.52</b>			
								<b>5203.36</b>	<b>Kg</b>	67.50	351226.80
55	CG PWD BUILD SOR 2015 AMM 08 14.72	Providing and applying minimum 2 Coats Glossy finish Enamel paint in al surface applying @ 0.75 lit/ 10 Sqm up to required finish as per relevant I.S. code 2932: 2013 of (Product such as Asian Apcolite Premium Enamel Dulux Promise Premium Enamel Nerolac Synthatic Enamel, Opus Prime enamel ) inclusive of providing abro tape on edges and article and cleaning of door, windows, floor and surface as required with all tools tackle and labour etc. complete for the work.									
								41.04			
		<b>First Floor Total Qty</b>						<b>41.04</b>	<b>Sqm</b>		
		2nd Floor Qty						41.04			
		3rd Floor Qty						41.04			
		4th Floor Qty						41.04			
		5th Floor Qty						41.04			
		6th Floor Qty						41.04			
		Mumty Window W		1	1.80		1.65	2.97			
								<b>249.21</b>	<b>Sqm</b>	120.00	29905.20
56	CG BUILD NG SOR AMM 03 8.166	Providing and fixing factory made uPVC white colour sliding glazed window upto 1.50 m in height dimension comprising of uPVC multi-chambered frame with in-/- , built roller track and sash extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (s~ape & size according to uPVC profile), appropriate dimension of uPVC extruded glazing beads and uPVC extruded interlocks, EPDM gasket, wool pile, zinc alloy (white powder coated) touch locks with hook, zinc/alloy body with single nylon rollers (weight bearing capacity to be 40 kg), G.I fasteners 100 x 8 mm size for fixing . . frame to finished wall and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the _gap _between frame and adjacent finished wall shall be filled with weather proof silicon									

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S. No.	SOR No.	Particular	No.	Measurement				Qty	Unit	Rate	Amount
				No.	L	B	D/H				
	8.165.D.5	Three track three panels sliding window made of (big series) frame 116 x 45 mm & Sqm .. 6889.55* D.5 sash 46 x 62 mm both having wall thickn~ss of 2.3 ± 0.2 mm and single glazing bead I double glazing bead of appropriate dimension. (Area of window above 1.75 sqm)									
		W	1	2	1.80		1.65	5.94			
		W1	4	2	1.50		1.65	19.80			
		W2	4	1	1.30		1.65	8.58			
		KW	4	1	0.80		1.20	3.84			
		V1	4	2	0.60		0.60	2.88			
		<b>First Floor Total Qty</b>						<b>41.04</b>	<b>Sqm</b>		
		2nd Floor Qty						41.04			
		3rd Floor Qty						41.04			
		4th Floor Qty						41.04			
		5th Floor Qty						41.04			
		6th Floor Qty						41.04			
		Mumty Window W		1	1.80		1.65	2.97			
								249.21	<b>sqm</b>	6889.55	1716944.76
57	9.59	Extra for providing and fixing reflective glass panes in aluminium door, window, ventilator shutters and partitions instead of float glass.									
	9.59.3	6 mm thickness									
		W	1	2	1.80		1.65	5.94			
		W1	4	2	1.50		1.65	19.80			
		W2	4	1	1.30		1.65	8.58			
		KW	4	1	0.80		1.20	3.84			
		<b>First Floor Total Qty</b>						<b>38.16</b>	<b>Sqm</b>		
		2nd Floor Qty						38.16			
		3rd Floor Qty						38.16			
		4th Floor Qty						38.16			
		5th Floor Qty						38.16			
		6th Floor Qty						38.16			
		Mumty Window W		1	1.80		1.65	2.97			
								<b>231.93</b>	<b>Sqm</b>	353.00	81871.29
58	9.44	Providing and fixing "NETLON insect screens" with 25mm wide Hook and loop tape all around to wooden/ aluminium/ steel windows, ventilators and the like complete.									
								<b>231.93</b>	<b>sqm</b>	278.00	
59	4.6	<b>Water Proofing</b>									
		Providing and laying water proofing treatment on roofs of slabs by applying cement slurry mixed with water proofing cement compound consisting of following applications including surface preparation: i) 1st layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm. ii) 2nd layer of Fibre glass cloth when the first layer is still green. Overlaps of joints of fibre cloth should not be less than 10 cm. iii) 3rd layer of 1.5 mm thickness consisting of slurry of cement @ 1.289 kg/sqm mixed with coarse sand @ 1.289 kg/sqm and water proofing cement compound @ 0.07 kg/sqm. This will be allowed to air cure for 4 hours followed by water curing for 48 hours. The entire treatment will be taken upto 30cm on parapet wall and tucked into groove in parapet all around. iv) 4th and final layer of brick tiling with cement mortar (which will be paid for separately)									64476.54

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S. No.	SOR No.	Particular	No.	Measurement				Qty	Unit	Rate	Amount
				No.	L	B	D/H				
		Roofs and Mumty	1	1.00	20.00	17.00		340.00	sqm	283.00	96220.00
Total Rs. :-											29245688.77
							Add 5% For Fire Fighting:-				1462284.44
Total No. of Block :-										1	30707973.21
To Say :-											307.08

DETAILED ESTIMATE FOR THE CONSTRUCTIONS OF GAD COLONY /OFFICE UNDER REDEVELOPMENT YOJANA AT KAILASH NAGAR RAJNANDGAON (C.G.											
Sanitary & Water Supply of H-Type 1BHK (S+3)											
S. No.	SOR No.	Particular	No.	Measurement				Qty	Unit	Rate	Amount
				No.	L	B	D/H				
		Sanitary & Water Supply Work									
1	18.1	Providing and fixing water closet squatting pan (Indian type W.C. pan ), 100mm sand cast Iron P or S trap, 10 litre low level P.V.C. flushing cistern (same colour) conforming to IS : 7231, with flush bend and other fittings and fixtures complete including cutting and making good the walls and floors wherever required :									
	18.1.3	White Orissa pattern W.C. pan of size 580x440 mm									
		Indian type W.C.	6	4				24.00	Each	2899.00	69576.00
2	18.17	Providing and fixing vitreous china wash basin with C.I. brackets, 32 mm C.P. brass waste of standard pattern, including painting of brackets, cutting and making good the walls wherever required :									
	18.17.1	White Size 550x450 mm									
		Wash basin	6	4				24.00	Each	1430.00	34320.00
3	18.22	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink without drain board as per IS 13983 with C.I. brackets and stainless steel plug 40 mm including painting of fittings and brackets, cutting and making good the walls wherever required :									
	18.22.1	345x445 mm bowl depth 200 mm.									
		kitchen sink	6	4				24.00	Each	6298.00	151152.00
4	18.25	Providing and fixing flexible P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.									
	18.25.1	32 mm dia									
		Wash basin	6	4				24.00			
		Kitchen sink	6	4				24.00			
								48.00	Each	68.50	3288.00
5	18.76	Providing and fixing on wall face UV stabilized Unplasticised Rigid PVC pipes (single socketed) having 3.2mm wall thickness conforming to IS : 13592 (4kg/sqcm) including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion.									
	18.76.1	75 mm dia pipe.									
		Horizontal			300.00			300.00			
		Vertical			540.00			540.00			
		vent pipe for waste water stack			400.00			400.00			
		Rain water pipe			484.00			484.00			
								1724.00	Mtr	182.00	313768.00
	18.76.2	110 mm dia pipe.									
		horizontal			600.00			600.00			
		Vertical			500.00			500.00			
		for rain water pipe			605.00			605.00			
		horizontal (stilt floor)			440.00			440.00			
								2145.00	Mtr	267.00	572715.00
	18.76.3	150 mm dia pipe									
								220.00	Mtr	440.00	96800.00

# PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S. No.	SOR No.	Particular	No.	Measurement				Qty	Unit	Rate	Amount
				No.	L	B	D/H				
6	18.78	Providing and fixing UV stabilized Unplasticised -PVC pipe clips of approved design to Rigid PVC pipes by means of 50x50x50mm hard wood plugs, screwed with M.S. screws of required length including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.									
	18.78.1	75 mm		862				862.00	Each	57.00	49134.00
	18.78.2	110 mm		1073				1072.50	Each	61.00	65422.50
7	18.77	Providing and fixing on wall face UV stabilized Unplasticised - PVC moulded fittings/ accessories having 3.2mm wall thickness for Rigid PVC pipes conforming to IS : 13592 (heavy) jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion.									
	18.77.1	Tee/ Tee with door/ Bend 45°/ Bend 90°									
	18.77.1.1	75 mm		54				54.00	Each	113.00	6102.00
	18.77.1.2	110 mm		82				82.00	Each	154.00	12628.00
	18.77.4	Access door cap									
	18.77.4.1	75 mm		20				20.00	Each	49.50	990.00
	18.77.4.2	110 mm		34				34.00	Each	59.00	2006.00
	18.77.5	P trap 110mmx110mm long		16				16.00	Each	227.00	3632.00
	18.77.6	Nahani trap 110x75mm		20				20.00	Each	90.50	1810.00
	18.77.7	Multi floor trap 110		12				12.00	Each	122.00	1464.00
	18.77.8	Plain reducing Tee 110x75mm		8				8.00	Each	129.00	1032.00
8	19.4	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.INTERNAL WORK - EXPOSED ON WALL									
	19.4.1	15 mm nominal outer dia .Pipes.			250.00			250.00	Mtr	110.00	27500.00
	19.4.2	20 mm nominal outer dia .Pipes			370.00			370.00	Mtr	151.00	55870.00
	19.4.3	25 mm nominal outer dia .Pipes.			280.00			280.00	Mtr	199.00	55720.00
	19.4.4	32 mm nominal outer dia .Pipes			240.00			240.00	Mtr	271.00	65040.00
	19.4.5	40 mm nominal outer dia .Pipes			500.00			500.00	Mtr	362.00	181000.00
	19.4.6	50 mm nominal outer dia .Pipes.			310.00			310.00	Mtr	560.00	173600.00
9	19.13	Providing and fixing 15 mm nominal bore Brass bib/stop cock of approved quality and weighting not less than 400 grams):									
	19.13.1	Bib cock		10				10.00	Each	185.00	1850.00
	19.13.3	Stop cock		24				24.00	Each	237.00	5688.00
10	19.14	Providing and fixing 15 mm nominal bore C.P. brass fittings of approved make and conforming to IS:8931 including C.P. brass extension if required:									
	19.14.3	Long body bib cock (500gms)		48				48.00	Each	426.00	20448.00
	19.14.5	Two way bib cock (800 grams)		24				24.00	Each	708.00	16992.00
	19.14.7	Angle valve for basin mixer and geyser points (450 grams)		24				24.00	Each	382.00	9168.00
	19.14.12	Bottle trap set with extension pipes		48				48.00	Each	473.00	22704.00
	19.14.15	Shower rose (revolving type) (150mm)		24				24.00	Each	269.00	6456.00
	19.14.18	Wall mixer (telephonic type) with crutch arrangement for hand shower (1400gms)		24				24.00	Each	1764.00	42336.00

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S. No.	SOR No.	Particular	No.	Measurement				Qty	Unit	Rate	Amount
				No.	L	B	D/H				
11	19.15	Providing and fixing stainless steel drain jali of approved make/quality.									
				32				32.00	Each	51.00	1632.00
12	19.16	Providing and fixing brass/ gun metal gate valve with C.I. wheel of approved quality (screwed end):									
	19.16.2	32 mm nominal bore.		12				12.00	Each	510.00	6120.00
13	19.17	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :									
	19.17.2	20 mm nominal bore		4				4.00	Each	394.00	1576.00
	19.17.3	25 mm nominal bore		8				8.00	Each	432.00	3456.00
14	19.42	Providing and placing on terrace (at all floor levels) polyethylene water storage tank ISI : 12701 marked with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank									
			6	8	1000.00			48000.00	Ltr	7.30	350400.00
<b>Total Rs. :-</b>											<b>2433395.50</b>
<b>For 1 Blocks</b>											<b>2433395.50</b>

<p align="center"><b>PROJECT ESTIMATE FOR THE CONSTRUCTIONS OF KAILASH NAGAR COLONY OFFICE UNDER REDEVELOPMENT YOJANA AT KAILASH NAGAR RAJNANDGAON (C.G.)</b></p>										
<b>E TYPE Duplex Bungalow 3BHK (G+1)</b>										
S. No.	SOR No.	Particular	Measurement				Qty	Unit	Rate	Amount
			No.	L	B	D/H				
		<b>Upto Plinth Lvl</b>								
1	1.2	Surface dressing of the ground including removing vegetation and making up undulations and in-equalities not exceeding 15 cms in depth/ height including disposal of rubbish upto 1.5 m lift and lead upto 50m (at least 5m away from the dressed area).								
			1	16.00	20.00		320.00	Sqm	7.20	2304.00
2	1.1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits.								
	1.1.1	In all types of soil								
		Foundation	19	2.60	2.60	3.00	385.32			
							<b>385.32</b>	<b>Cum</b>	185.00	71284.20
3	1.6.1	Extra for every additional lift of 1.5 m or part there of								
		Foundation	19	2.60	2.60	1.50	192.66			
							<b>192.66</b>	<b>Cum</b>	26.50	5105.49
4	1.18	Providing and filling in plinth with sand/ Crusher dust and hard moorum under floor in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering, including dressing etc. complete.								
		Footing	19	2.60	2.60	0.10	12.84			
		Plinth filling	1	10.50	14.50	0.75	114.19			
							<b>127.03</b>	<b>Cum</b>	371.00	47128.69
5	3.1	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.								
	3.1.3	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).								
		Footing PCC	19	2.30	2.30	0.10	10.05			
		Grade Slab	1	150.00	Sqm	0.10	15.00			
							<b>25.05</b>	<b>Cum</b>	2970.00	74401.47
6	3.13	Providing and laying damp proof course (upto 50mm thick) with plain cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded crushed stone aggregate 20mm nominal size) including form work.	1	100.00	0.20	0.05	<b>1.00</b>	<b>cum</b>	4237.00	4237.00
7	3.3	Providing and laying design mix reinforced cement concrete with crushed graded stone aggregate 20mm nominal size using batching plant, transit mixer and concrete pump, in all works upto plinth level excluding cost of form work.								
	3.3.2	M-25 Grade								
		Footing	19	2.00	2.00	0.40	30.40			
		Column upto plinth lvl	19	0.20	0.50	2.40	4.56			
		Plinth Beam								
		X-X Direction	5	10.60	0.20	0.50	5.30			
			2	6.70	0.20	0.50	1.34			
			2	2.70	0.20	0.50	0.54			
		Y-Y Direction	3	14.50	0.20	0.50	4.35			
			3	10.50	0.20	0.50	3.15			

S. No.	SOP No.	Particular	Measurement				Qty	Unit	Rate	Amount
			No.	L	B	D/H				
		Boundary wall (GB)	1	72.00	0.20	0.30	4.32			
							<b>53.96</b>	<b>Cum</b>	4298.00	231920.08
8	3.12	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire in foundation and plinth all complete:								
	3.12.1	Thermo-Mechanically treated bars FE 415 D	@130Kg/Cum			53.96	<b>7014.80</b>	<b>Kg</b>	54.50	382306.60
9	2.1	Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:								
	2.1.1	Foundations, footings, bases of columns plinth beam, curtain wall in any shape and size and all type of wall below plinth level.								
		Footing	19	8.00		0.40	60.80			
		Column upto plinth lvl	19	1.40		2.40	63.84			
		Plinth Beam								
		X-X Direction	5	10.60		1.20	63.60			
			2	6.70		1.20	16.08			
			2	2.70		1.20	6.48			
		Y-Y Direction	3	14.50		1.20	52.20			
			3	10.50		1.20	37.80			
		Boundary wall (GB)	1	72.00		0.80	57.60			
							<b>358.40</b>	<b>Sqm</b>	139.00	49817.60
10	1.17	Filling from available excavated stuff (Excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering with a lead upto 50 M. and lift upto 1.5 M.								
		Back filling					327.47	<b>Cum</b>	65.00	21285.23
		<b>Superstructure</b>								
11	3.3	Providing and laying design mix reinforced cement concrete with crushed graded stone aggregate 20mm nominal size using batching plant, transit mixer and concrete pump, in all works upto plinth level excluding cost of form work.								
	3.3.2	M-25 Grade								
		<b>Ground Floor</b>								
		Column upto slab lvl	19	0.20	0.50	3.50	<b>6.65</b>			
		Lintel Beam								
			2	10.20	0.20	0.20	0.82			
			2	6.70	0.20	0.20	0.54			
			3	4.30	0.20	0.20	0.52			
			3	2.10	0.20	0.20	0.25			
			1	14.30	0.20	0.20	0.57			
		Slab Beam								
		X-X Direction	6	10.60	0.20	0.50	6.36			
			3	6.70	0.20	0.40	1.61			
			3	2.70	0.20	0.40	0.65			
		Y-Y Direction	3	14.50	0.20	0.50	4.35			
			3	10.50	0.20	0.50	3.15			
		Chhajja	3	1.80	0.60	0.10	0.32			
			5	1.00	0.60	0.10	0.30			
			1	3.70	0.60	0.10	0.22			
			1	3.00	0.60	0.10	0.18			
		Kitchen Plateform	1	8.60	0.60	0.10	0.52			

S. No.	SOR No.	Particular	Measurement				Qty	Unit	Rate	Amount
			No.	L	B	D/H				
		Stair								
		Waist Slab	1	4.25	1.00	0.125	0.53			
		Landing	2	1.00	1.00	0.125	0.25			
		Steps	17	1.00	0.25	0.150	0.64			
		Slab	1	150.00	Sqm	0.125	18.75			
							47.17	Cum		
		<b>1st Floor</b>								
		Column upto slab lvl	10	0.20	0.50	3.50	3.50			
		Lintel Beam								
			1	18.90	0.20	0.20	0.76			
			1	29.70	0.20	0.20	1.19			
		Slab Beam								
		X-X Direction	3	10.00	0.20	0.40	2.40			
			1	6.80	0.20	0.40	0.54			
		Y-Y Direction	4	9.90	0.20	0.40	3.17			
			2	3.90	0.20	0.40	0.62			
		Chhajja	2	1.50	0.60	0.10	0.18			
			4	1.00	0.60	0.10	0.24			
			2	2.00	0.60	0.10	0.24			
		Stair								
		Waist Slab	1	4.25	1.00	0.125	0.53			
		Landing	2	1.00	1.00	0.125	0.25			
		Steps	17	1.00	0.25	0.150	0.64			
		Slab	1	82.00	Sqm	0.125	10.25			
							24.51	Cum		
		Mumty								
		Column	5	0.20	0.50	3.00	1.50			
		Slab Beam	2	6.50	0.20	0.50	1.30			
			2	6.20	0.20	0.50	1.24			
		Mumty Slab	1	2.40	3.90	0.10	0.94			
		Column Above Roof Slab	4	0.20	0.50	0.90	0.36			
		Parapet Coping	1	40.00	0.20	0.075	0.60			
						<b>TOTAL</b>	<b>77.61</b>	<b>Cum</b>	4298.00	333582.82
12	3.4	Extra for laying PCC/RCC of any grade in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth:							97.50	
		Ground Floor Total Qty					18.75	Cum	97.50	1828.13
		1st Floor Qty					10.25	Cum	195.00	1998.75
		Mumty					0.94	Cum	292.50	273.78
13	3.12	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire in foundation and plinth all complete:								
	3.12.1	Thermo-Mechanically treated bars FE 415 D		@130Kg/Cum		77.61	<b>10089.76</b>	<b>Kg</b>	54.50	549891.65
14	3.1	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.								
	3.1.4	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 40mm nominal size).								
		Slab Grading	1	82.00	Sqm	0.05	4.10	Cum	3552.00	14563.20
15	2.1	Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:								
	2.1.5	Columns, Pillars, Piers and likes- rectangular or square in shape								
		Ground Floor Column	19	1.40		3.50	93.10			
		1st Floor Column	10	1.40		3.50	49.00			
		Mumty Column	4	1.40		3.00	16.80			

S. No.	SOP No.	Particular	Measurement				Qty	Unit	Rate	Amount
			No.	L	B	D/H				
		Column Above Roof Slab	8	1.40		0.90	10.08			
							<b>168.98</b>	<b>Sqm</b>	297.00	50187.06
	2.1.7	Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)								
		Ground Floor Slab	1	150.00	Sqm		150.00			
		1st Floor Slab	1	82.00	Sqm		82.00			
		Mumty Slab	1	2.40	3.90		9.36			
							<b>241.36</b>	<b>Sqm</b>	235.00	56719.60
	2.1.8	Beams, lintels, cantilevers & walls								
		<b>Ground Floor</b>								
		Lintel Beam								
			2	10.20		0.60	12.24			
			2	6.70		0.60	8.04			
			3	4.30		0.60	7.74			
			3	2.10		0.60	3.78			
			1	14.30		0.60	8.58			
		Slab Beam								
		X-X Direction	6	10.60	0.20	1.20	15.26			
			3	6.70	0.20	1.00	4.02			
			3	2.70	0.20	1.00	1.62			
		Y-Y Direction	3	14.50		0.60	26.10			
			3	10.50		0.60	18.90			
							<b>106.28</b>	<b>Sqm</b>		
		<b>1st Floor</b>								
		Lintel Beam								
			1	18.90		0.60	11.34			
			1	29.70		0.60	17.82			
		Slab Beam								
		X-X Direction	3	10.00		1.00	30.00			
			1	6.80		1.00	6.80			
		Y-Y Direction	4	9.90		1.00	39.60			
			2	3.90		1.00	7.80			
							<b>113.36</b>	<b>Sqm</b>		
		Mumty Slab Beam	2	6.50		1.20	15.60			
			2	6.20		1.20	14.88			
							<b>250.12</b>	<b>Sqm</b>	202.00	50525.05
	2.1.13	Weather shade, chhajja, Cornices and mouldings								
		Ground Floor Chhajja	3	1.80	0.60		3.24			
			5	1.00	0.60		3.00			
			1	3.70	0.60		2.22			
			1	3.00	0.60		1.80			
		1st Floor Chhajja	2	1.50	0.60		1.80			
			4	1.00	0.60		2.40			
			2	2.00	0.60		2.40			
		Kitchen Plateform	1	8.60	0.60		5.16			
							<b>22.02</b>	<b>Sqm</b>	294.00	6473.88
	2.1.15	Stair cases of all types excluding spiral and folded plate type, including risers and landings								
		Ground Floor Stair								
		Waist Slab	1	4.25	1.00		4.25			
		Landing	2	1.00	1.00		2.00			
		sides	2	4.25		0.125	1.06			
		Risers	17	1.00	0.15		2.55			
		Treads	17	1.00		0.25	4.25			
		1st Floor Stair								
		Waist Slab	1	4.25	1.00		4.25			
		Landing	2	1.00	1.00		2.00			
		sides	2	4.25		0.125	1.06			
		Risers	17	1.00	0.15		2.55			
		Treads	17	1.00		0.25	4.25			
							<b>28.23</b>	<b>Sqm</b>	230.00	6491.75

S. No.	SOP No.	Particular	Measurement				Qty	Unit	Rate	Amount
			No.	L	B	D/H				
16	4.5	Providing and laying water proofing treatment in sunken portion of WCs, bathroom, kitchen etc., by applying cement slurry mixed with water proofing cement compound consisting of following applications including surface preparation: i) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm. This layer will be allowed to air cure for 4 hours. ii) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound @ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours. The rate includes treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry.								
		Toilets( Ground and First Floor)	1	18.03	Sqm		18.03			
		First Floor Slab Area	1	82.00	Sqm		82.00			
		Mumty Slab	1	2.40	3.90		9.36			
							<b>109.39</b>	<b>Sqm</b>	182.00	19908.98
17	7.5	Brick work with modular fly-ash lime bricks (FaLG Bricks) confirming to IS:12894-2002 of class designation 4.0 in foundation and plinth in:								
	7.5.4	Cement Mortar 1:6 (1 cement : 6 coarse sand)								
		Ground Floor								
		X-X Direction	1	33.00	0.20	3.10	20.46			
		Y-Y Direction	1	32.50	0.20	3.10	20.15			
		Boundary wall	1	72.00	0.20	3.00	43.20			
		1st Floor								
		X-X Direction	1	23.00	0.20	3.10	14.26			
		Y-Y Direction	1	19.80	0.20	3.10	12.28			
		Deductions								
		D	1	1.00	0.20	2.10	-0.42			
		D1	10	0.90	0.20	2.10	-3.78			
		D2	5	0.75	0.20	2.10	-1.58			
		W	1	1.80	0.20	1.50	-0.54			
		W1	8	1.50	0.20	1.50	-3.60			
		V	5	0.60	0.20	0.60	-0.36			
							<b>100.07</b>	<b>Cum</b>		
		Mumty Wall	2	3.90	0.20	2.60	4.06			
			2	2.40	0.20	2.60	2.50			
		Parapet Wall	1	40.00	0.20	0.90	7.20			
							<b>113.82</b>	<b>Cum</b>	3263.00	371404.45
18	7.6	Extra for brick work in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth:							121.00	
		Ground Floor Qty					83.81	Cum	121.00	10141.01
		1st Floor Qty					26.54	Cum	242.00	6421.71
		Mumty Wall					13.75	Cum	363.00	4991.98
19	11.1	Providing and making 6mm thick cement plaster of mix:								
	11.1.2	In Cement mortar 1:4 (1 cement : 4 fine sand)								
		Ground Floor								
		Chhajja					10.26			
		Slab Area					150.00			
		1st Floor								
		Chhajja					6.60			

S. No.	SOP No.	Particular	Measurement				Qty	Unit	Rate	Amount
			No.	L	B	D/H				
		Slab Area					82.00			
		Mumty Slab					9.36			
							<b>258.22</b>	<b>Sqm</b>	87.00	22465.14
20	11.2	Providing and making 12mm thick cement plaster of mix:								
	11.2.3	In Cement Mortar 1:5 (1 cement : 5 fine sand)								
		Wall								
		Ground Floor	1	33.00		3.60	118.80			
			1	32.50		3.60	117.00			
		Boundry Wall	1	72.00		2.00	144.00			
		1st Floor	1	23.00		3.60	82.80			
			1	19.80		3.60	71.28			
		Deductions								
		D	1	1.00		2.10	-2.10			
		D1	10	0.90		2.10	-18.90			
		D2	5	0.75		2.10	-7.88			
		W	1	1.80		1.50	-2.70			
		W1	8	1.50		1.50	-18.00			
		V	5	0.60		0.60	-1.80			
		Mumty Wall	4	3.90		3.10	48.36			
			4	2.40		3.10	29.76			
		Parapet Wall	2	40.00		0.90	72.00			
							<b>632.63</b>	<b>Sqm</b>	96.50	61048.31
21	11.3	Providing and making 15mm thick cement plaster on the rough side of single or half brick wall of mix:								
	11.3.3	In Cement Mortar 1:5 (1 cement : 5 fine sand)								
		Ground Floor Qty					379.80			
		1st Floor Qty					154.08			
							<b>533.88</b>	<b>Sqm</b>	113.00	60328.44
22	11.8	Providing and making 18mm thick cement plaster in two coats with under layer of 12mm thick plaster 1:5 (1 cement : 5 fine sand) and top layer of 6mm thick with cement plaster 1:3 (1 cement : 3 fine sand) finished rough with sponge								
		Outer Wall								
		Ground Floor	1	35.00		3.50	122.50			
		1st Floor	1	49.30		3.50	172.55			
		For Elevation	12	1.00		6.20	74.40			
							<b>369.45</b>	<b>Sqm</b>	167.00	61698.15
23	11.40	Making grove in cement plaster while plastering upto 10 mm deep and 10 mm wide.								
			4	50.00			200.00	Mtr	1.30	260.00
24	11.41	Providing and fixing chicken mesh weighting not less than 250 gms/ sqm as per IS : specification in the required width with 40mm long steel nails on vertical and horizontal surface near R.C.C. and brick walls junctions including scaffolding and all lead and lifts etc. complete before plastering upto 10mts in height.								
		Column					168.98			
		Slab Beam					250.12			
							<b>419.10</b>	<b>Sqm</b>	86.00	36042.94
25	9.57	Providing stainless steel railing/ grill made of S.S. flats, hollow S.S. pipe or square/ rectangular sections of approved design fixing in stair case, balcony or other places with metal fasteners and stainless steel bolts etc complete.								
	9.57.2	SS Grade 304								

S. No.	SOP No.	Particular	Measurement				Qty	Unit	Rate	Amount
			No.	L	B	D/H				
		Ground Floor								
		Wash Area	1	3.50		1.00	3.50			
		Stair Railing	1	4.25		1.00	4.25			
		1st Floor								
		Terrace Railing	1	40.00		1.00	40.00			
		Stair Railing	2	4.25		1.00	8.50			
							<b>56.25</b>	<b>Sqm</b>		
							<b>337.50</b>	<b>Kg</b>	525.00	177187.50
							@6Kg/Sqm			
26	8.11.2	Providing and fixing glass panes in glazed or paneled and glazed shutters of doors and window, clearstory windows etc (Only area of glass panes to be measured). <b>8mm thick</b>	1	48.50		<b>1.00</b>	<b>48.50</b>		814.00	39479.00
								<b>sqm</b>		
26	Ammen dment No. 04 12.79	Providing and laying DOUBLE/MULTI CHARGE (minimum 2.0 mm thick laying) VIRTRIFIED floor tiles with water absorption less then 0.05% and conforming to IS: 15622-2017 of 1st quality of approved make in all colors and shades and size mentioned below (+/- 10 mm), laid on 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including pointing the joints with white cement and matching pigments etc. complete.								
	12.79.2	Size 800x800 mm thickness 9 to 10 mm								
		Ground Floor								
		Drawing Hall	1	4.70	4.10		19.27			
		Hall Lobby	1	5.30	5.20		27.56			
		Bedroom	1	3.70	4.50		16.65			
		Kitchen	1	3.10	4.50		13.95			
		office	1	4.80	3.00		14.40			
		Front Porch	1	3.90	3.80		14.82			
		Store	1	1.50	2.00		3.00			
		Below Stair area	1	2.20	4.90		10.78			
		Dress	2	1.50	1.40		4.20			
		20% Extra for skirting					24.93			
		1st Floor								
		Lobby	1	2.50	5.20		13.00			
			1	0.95	1.50		1.43			
		Bedroom	1	3.90	3.70		14.43			
		Dress	1	1.20	1.20		1.44			
		M Bedroom	1	4.40	4.20		18.48			
		Dress	1	1.80	2.00		3.60			
		20% Extra for skirting					10.48			
							<b>212.41</b>	<b>Sqm</b>	1343.00	285261.26
27	Ammen dment No. 04 12.74	Providing and fixing rectified glazed eceramic Floor tiles of Ist quality conforming to IS: 15622-2017 of approved make, in all colours, shades over 20 mm thick bed of cement Mortar 1:3 (1 cement: 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with matching pigment complete.								
	12.74.3	Size 600x600mm thickness 8 to 9mm								
		Ground Floor								
		C. Toilet	1	1.50	2.40		3.60			
		A. Toilet	2	2.40	1.50		7.20			
		1st Floor								
		A. Toilet	1	1.20	2.40		2.88			
		A. Toilet	1	1.80	2.50		4.50			
							<b>18.18</b>	<b>Sqm</b>	897.00	16307.46
28	12.9	Providing and laying ceramic glazed floor tiles conforming to IS : 15622 of approved size, make, colour, shade laid on 20 mm thick Cement Mortar 1:4 (1 cement : 4 coarse sand) including pointing the joints with white cement mixed with matching pigment etc., complete.								
		Stilt Parking					<b>120.00</b>	<b>sqm</b>	692.00	83040.00

S. No.	SOR No.	Particular	Measurement				Qty	Unit	Rate	Amount
			No.	L	B	D/H				
29	Amendment No. 04 12.75	Providing and fixing rectified glazed ceramic wall/dado tiles of 1st quality conforming to IS: 15622-2017 of approved make, in all colours, shades on wall and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement: 3 coarse sand) and jointing with grey cement slurry@ 3.3kg per sqm including pointing in white cement mixed with matching pigment complete.								
	12.75.2	Size 300x600mm thickness 7 to 8mm								
		Ground Floor								
		C. Toilet	1	7.80		2.40	37.44			
		A. Toilet	2	7.80		2.40	74.88			
		1st Floor								
		A. Toilet	1	7.20		2.40	34.56			
			1	8.60		2.40	41.28			
							188.16	Sqm	850.00	159936.00
30	12.46	15 mm thick Table rubbed polished granite stone slab in risers and treads of step skirting dado and pillars laid on 12mm (Average) thick base of cement mortar 1:3 (1 cement : 3 coarse sand) and jointed with grey cement slurry including rubbing and polishing etc. complete(single stone is to be used for risers and treads of steps and width of stone for skirting and dado shall be equal to the height of skirting & dado and length of 1.0 m).								
	12.46.1	Granite stone black								
		Ground Floor								
		Stair								
		Landing	2	1.00	1.00		2.00			
		Risers	20	1.00	0.15		3.00			
		Treads	19	1.20		0.25	5.70			
		Kitchen Platform	1	8.60	1.00		8.60			
			1	8.60		0.60	5.16			
		Side Verandah Landing	1	2.60	1.40		3.64			
		riser	6	1.40	0.15		1.26			
		treads	4	1.40		0.25	1.40			
		Back Verandah Landing	1	4.30	1.40		6.02			
		riser	6	1.40	0.15		1.26			
		treads	4	1.40		0.25	1.40			
		1st Floor								
		Stair								
		Landing	2	1.00	1.00		2.00			
		Risers	20	1.00	0.15		3.00			
		Treads	19	1.20		0.25	5.70			
		Window Sill								
		W	1	1.80	0.60		1.08			
		W1	8	1.50	0.60		7.20			
							58.42	Sqm	1869.00	109186.98
31	12.36	Chequered terrazzo tiles 22 mm thick with graded marble chips of size upto 6mm in floors on 25mm thick bed of cement mortar 1:6 (1 cement : 6 coarse sand) jointed with neat cement slurry mixed with pigment to match the shade of tiles including grinding rubbing and polishing complete.								
	12.36.1	Light shade using white cement								
		Porch	1	3.30	8.00		26.40	Sqm	799.00	21093.60

S. No.	SOR No.	Particular	Measurement				Qty	Unit	Rate	Amount
			No.	L	B	D/H				
32	12.65	Providing & laying 60mm thick precast interlocking concrete blocks of approved size (approx 305 sqcm) and shape/ pattern, over 40 mm thick average complete coarse sand bed with joints of 3mm thick filled by fine sand including leveling with surface vibrator, temping and sweeping etc. complete of minimum compressive strength of 250 kg/sq.cm								
	12.65.2	Pigment Coloured (rubber mould) precast interlock concrete blocks								
		Around Plot	1	8.80	1.20		10.56			
		Back side	1	8.80	2.00		17.60			
							<b>28.16</b>	<b>Sqm</b>	632.00	17797.12
33	14.13	Providing and applying 2mm thick ready mix exterior grade approved make putty (like Birla wall care, Alltek Superfine W/R of (NCL), Asian, ICI,Nerolac, J.K. wall putty) on walls to make the surface smooth and even.								
		Quantity of 6mm Plaster					258.22			
		Quantity of 12mm Plaster					632.63			
		Quantity of 15mm Plaster					533.88			
							<b>1424.73</b>	<b>Sqm</b>	94.50	134636.51
34	14.10	Wall painting with acrylic premium emulsion (plastic) paint of required shade to give an even shade								
	14.10.1	On new work (two or more coats)								
		Quantity of 6mm Plaster					258.22			
		Quantity of 12mm Plaster					632.63			
							<b>890.85</b>	<b>Sqm</b>	44.50	39642.60
35	14.16	Painting exterior surface with PREMIUM ACRYLIC SMOOTH exterior paint of required shade as per manufacturer's specifications to give protective and decorative finish including cleaning washing of surface etc.complete with:								
	14.16.1	On new work (Two or more coats applied @ 1.43 ltr/ 10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 Sqm)								
		Quantity of 15mm Plaster					533.88			
							<b>533.88</b>	<b>Sqm</b>	74.50	39774.06
36	14.17	Painting exterior surface with TEXTURED exterior paint of required shade as per manufacturer's specifications to give protective and decorative finish including cleaning washing of surface etc. complete with:								
	14.17.1	On new work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including priming coat of exterior primer applied @ 2.20kg/ 10 sqm								
		50% of inner wall area					316.31	Sqm	140.00	44283.75
37	1.25	Diluting chemical emulsion (chlorpyrifos/ lindane) in water as per manufacturers recommendation and injecting for pre-constructional curative cum preventive anti-termite treatment:(Five year service guarantee bond to be signed by contractor)								
	1.25.1	Surface treatment by spreading emulsion under floor, over the plinth area before laying base concrete @ 5 litres / sqm								
							150.00	Sqm	27.50	4125.00
		<b>Door &amp; Window</b>								

S. No.	SOP No.	Particular	Measurement				Qty	Unit	Rate	Amount
			No.	L	B	D/H				
38	8.12	Providing and fixing flush door shutters, conforming to IS : 2202 (Part-I), decorative type core of block board construction with frame of first class hard wood and well matched teak ply veneering with vertical grains or cross bands and face veneers on both faces of shutters excluding hinges.								
	8.12.2	35 mm. thick (single leaf)								
		D	1	1.00		2.10	2.10			
		D1	10	0.90		2.10	18.90			
		D2	5	0.75		2.10	7.88			
		Mumty Door D2	1	1.00		2.10	2.10			
							<b>30.98</b>	<b>Sqm</b>	2005.00	62104.88
39	8.1	Providing wood work in frames of doors windows, clerestory windows and other frames wrought framed and fixed in position.								
	8.1.2	Sal, bijasal, benteak, chair, haldu								
		D1	1	5.20	0.075	0.10	0.04			
		D2	10	5.10	0.075	0.10	0.38			
		D3	5	4.95	0.075	0.10	0.19			
		Mumty Door D1	1	5.20	0.075	0.10	0.04			
							<b>0.65</b>	<b>Cum</b>	61051.00	39446.58
40	14.25	Providing and laying French sprit polish on new wood work after preparing the surface by rubbing down smooth with sand papers, covering the knots, if visible applying a coat of wood filler cleaning the surface applying 50 or more coats of French spirit polish till the surface gives high gloss.								
							61.95	Sqm	143.00	8858.85
41	8.58	Providing and fixing bright finished brass butt hinges with brass polished MS screws complete.								
	8.58.1	125x85x5.50 mm (Heavy Type)								
		D1	1	4.00			4.00			
		D2	10	4.00			40.00			
		D3	5	4.00			20.00			
							<b>64.00</b>	<b>Each</b>	437.00	27968.00
42	8.139	Providing and fixing stainless steel tower bolts (Barrel type) with necessary stainless steel screws etc complete.								
	8.139.1	250x10mm								
		D1	1	2.00			2.00			
		D2	10	2.00			20.00			
		D3	5	2.00			10.00			
							<b>32.00</b>	<b>Each</b>	97.00	3104.00
43	8.140	Providing and fixing stainless steel door handles having flap thickness 2.5mm, necessary stainless steel screws etc complete.								
	8.140.2	125 mm								
		D1	1	2.00			2.00			
		D2	10	2.00			20.00			
		D3	5	2.00			10.00			
							<b>32.00</b>	<b>Each</b>	22.50	720.00
44	8.138	Providing and fixing S.S. door latch with 12mm rod necessary nickel plated iron nuts bolts and screws etc complete.								
	8.138.2	250mm								
		D1	1	2.00			2.00			
		D2	10	2.00			20.00			
		D3	5	2.00			10.00			
							<b>32.00</b>	<b>Each</b>	85.00	2720.00
45	8.137	Providing and fixing stainless steel sliding door bolts with 16mm rod, 2.5mm thick flap, necessary stainless steel nuts bolts and screws etc complete								
	8.137.2	250mm								
		D1	1	2.00			2.00			
		D2	10	2.00			20.00			
		D3	5	2.00			10.00			

S. No.	SOP No.	Particular	Measurement				Qty	Unit	Rate	Amount
			No.	L	B	D/H				
							<b>32.00</b>	<b>Each</b>	228.00	7296.00
46	8.143	Providing and fixing stainless steel hanging door stopper with necessary stainless steel screws complete.								
	8.143.2	Single								
		D1	1				1.00			
		D2	10				10.00			
		D3	5				5.00			
							<b>16.00</b>	<b>Each</b>	65.00	1040.00
47	8.160	Providing and fixing expandable fasteners of specified size with necessary plastic sleeves and galvanized M.S screws including drilling holes in masonry work /CC/ R.C.C by drilling machine and making good etc complete.								
	8.160.4	50 mm long								
		D1	1	4.00			4.00			
		D2	10	4.00			40.00			
		D3	5	4.00			20.00			
							<b>64.00</b>	<b>Each</b>	30.00	1920.00
48	8.3	Providing 40x5mm iron hold fast 40cm long including fixing to frame with 10mm bolts nuts and wooden plug and embedding in Cement Concrete 1:2:4 in blocks of size 30x10x15cm.								
		D1	1	3.00			3.00			
		D2	10	3.00			30.00			
		D3	5	3.00			15.00			
							<b>48.00</b>	<b>Each</b>	72.50	3480.00
49	8.152	Providing and fixing 30mm thick factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19mm x 19mm for styles and 15x15mm for top & bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture . M.S. frame covered with 5mm thick heat moulded PVC 'C' channel of size 30mm thickness, 70mm width out of which 50mm shall be flat and 20mm shall be tapered in 45degree angle on either side forming styles; and 5mm thick, 95mm wide PVC sheet out of which 75mm shall be flat and 20mm shall be tapered in 45 degree on the inner side to form top and bottom rail and 115mm wide PVC sheet out of which 75mm shall be flat and 20mm shall be tapered on both sides to form lock rail. Top, bottom and lock rails shall be provided either side of the panel. 10mm (5mm x 2 ) thick, 20mm wide cross PVC sheet be provided as gap insert for top rail & bottom rail. paneling of 5mm thick both								
	8.152.2	Both side Pre-laminated panel PVC door shutter								
		D2	5	0.75		2.10	7.88			
							<b>7.88</b>	<b>Sqm</b>	2832.00	22302.00
50	8.151	Providing and fixing factory made P.V.C. door frame of size 50x47mm with a wall thickness of 5mm, made out of extruded 5mm rigid PVC foam sheet mitred at corners and joined with 2 Nos of 150mm long brackets of 15x15mm M.S. square tube, the vertical door profiles to be reinforced with 19x19mm M.S. square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame. The door frame to be fixed to the wall using M.S. screws of 65/100mm size complete as per manufacturers specification and direction of Engineer-in-Charge.								
		D2	5	5.70			28.50			
							<b>28.50</b>	<b>Mtr</b>	346.00	9861.00

S. No.	SOR No.	Particular	Measurement				Qty	Unit	Rate	Amount
			No.	L	B	D/H				
51	9.14	Providing and fixing steel door made of angle iron of suitable sizes with M.S. grill of approved pattern made of M.S. flats or square or round bars coat of red oxide zinc chromate primer.								
		Main Gate	1	3.30		2.00	6.60			
			1	3.70		2.00	7.40			
		Boundary Wall	1	72.00		1.00	72.00			
		45kg per sqm					3870.00	Kg	79.50	307665.00
52	9.15	Providing and fixing M.S. grill of approved pattern made of M.S. flats or square or round bars welded to steel frame of windows etc. including applying a priming coat welded to frame with all necessary fitting complete including applying a priming of red oxide zinc chromate primer.								
		W	1	1.80		1.50	2.70			
		W1	8	1.50		1.50	18.00			
		W2	2	1.20		1.50	3.60			
		V	5	0.60		0.60	1.80			
		Mumty Window W	1	1.20		1.65	1.98			
							28.08	Sqm		
						@12kg/Sqm	336.96	Kg	67.50	22744.80
53	14.22	Painting on new work (two or more coats) to give an even shade with:								
	14.22.1	Satin synthetic enamel paint								
							28.08	Sqm	55.00	1544.40
54	8.166	Providing and fixing factory made uPVC white colour sliding glazed window above 1.50 m in height dimension comprising of uPVC multi-chambered frame with in- built roller track and sash extruded profiles duly reinforced with 1.60 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), appropriate dimension of uPVC extruded glazing beads, uPVC extruded interlocks and uPVC extruded Inline sash adaptor (if required), EPDM gasliet, wool pile, zinc alloy (white powder coated) handle on one side of extreme panel along with zinc plated mild steel multi point locking leaving transmission gear with keas, zinc alloy (white powder coated) touchMock with hook(if required for wire mesh panel), stainless steel (SS 304 grade) body with adjustable double nylon rollers (weight bearing capacity to be 120 kg), G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners including drilling								
	8.165.5	Three track three panels sliding window made of (big series) frame 116 x 45 mm & sash 46 x 62 mm both having wall thickness of 2.3+-0.2 mm and single glazing bead / double glazing bead of appropriate dimension (Area of window upto 1.75 sqm)								
		W	1	1.80		1.50	2.70			
		W1	6	1.50		1.50	13.50			
		W1	2	1.20		3.00	7.20			
		V	5	0.60		0.60	1.80			
		Mumty Window W	1	1.20		1.65	1.98			
							27.18	Sqm	6889.55	187257.97
55	9.51	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/ neoprene gasket etc. complete. (Cost of aluminium snap beading shall be paid in basic item):								
	9.51.2	With float glass panes of 5 mm thickness in UPVC Windows					27.18	Sqm	708.00	19243.44

S. No.	SOR No.	Particular	Measurement				Qty	Unit	Rate	Amount
			No.	L	B	D/H				
56	9.44	Providing and fixing "NETLON insect screens" with 25mm wide Hook and loop tape all around to wooden/ aluminium/ steel windows, ventilators and the like complete.								
		W	1	1.80		1.50	2.70			
		W1	6	1.50		1.50	13.50			
		KW	5	0.60		0.60	1.80			
							18.00	Sqm	278.00	5004.00
Sub Total Rs. :-										4523068.88
Sanitary and water supply work @9%										407076.20
Electrical work										224885.00
Grand Total Rs. :-										5155030.08
Total No. of Block :-									2	10310060.00
To Say (In Lakh) :-										103.10

PROJECT ESTIMATE FOR THE CONSTRUCTION OF GAD COLONY OFFICE UNDER REDEVELOPMENT YOJANA AT KAILASH NAGAR RAJNANDGAON (C.G.)										
MAIN GATE GAD										
S. No.	SOR No.	Particular	Measurement				Qty	Unit	Rate	Amount
			No.	L	B	D/H				
1	1.1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits.								
		For Entrance Gate								
		Combine Footing	2	2.40	5.30	1.80	45.79			
			1	5.00	4.20	1.80	37.80			
		Single Footing	4	2.00	2.00	1.80	28.80			
							112.392	Cum	185.00	20793.00
2	3.1	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.								
	3.1.3	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).								
		For Entrance Gate								
		Combine Footing	2	2.40	5.30	0.15	3.82			
			1	5.00	4.20	0.15	3.15			
			4	2.00	2.00	0.15	2.40			
		For Guard Room	8	3.00	0.40	0.10	0.96			
			8	3.50	0.40	0.10	1.12			
		For Gate	2	6.00	0.50	0.10	0.60			
		For Dummy Room	2	2.80	0.40	0.10	0.22			
			2	2.40	0.40	0.10	0.19			
		Below Floor	2	2.40	3.10	0.10	1.49			
							13.95	Cum	2970.00	41432.00
3	3.2	Providing and laying nominal mix reinforced cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.								
	3.2.1	1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).								
		For Entrance Gate								
		Combine Footing	2	2.20	5.10	0.50	11.22			
		FB	2	5.10	0.45	0.20	0.92			
			2	0.88	0.45	0.20	0.16			
		Combine Footing	1	4.80	4.00	0.50	9.60			
		FB	2	4.00	0.45	0.20	0.72			
		Single Footing	4	1.80	1.80	0.40	5.18			
		For Entrance Gate								
		For Guard Room	8	3.00	0.20	0.40	1.92			
			8	3.50	0.20	0.40	2.24			
		For Gate	2	6.00	0.30	0.50	1.80			
		For Dummy Room	2	2.80	0.20	0.40	0.45			
			2	2.40	0.20	0.40	0.38			
		For Entrance Gate								
		Column upto Plinth	8	0.45	0.45	1.45	2.35			
			8	0.20	0.40	1.45	0.93			
						(A)	37.87			
		For Entrance Gate								
		Column up to Guard Room Slab Beam	8	0.45	0.45	3.15	5.10			
			8	0.20	0.40	3.15	2.02			
		Lintel Beam	8	2.80	0.20	0.30	1.34			
			8	3.50	0.20	0.30	1.68			
			1	2.40	0.20	0.30	0.14			
		Slab Beam For Guard Room	4	2.80	0.20	0.45	1.01			
			4	3.50	0.20	0.45	1.26			
		Slab Beam For Dummy Room	2	2.80	0.20	0.45	0.50			
			2	2.40	0.20	0.45	0.43			
		Guard Room Slab	2	4.00	4.50	0.135	4.86			
		Dummy Room Slab	1	3.70	3.40	0.135	1.70			
		Above Window	2	0.45	1.50	0.10	0.14			
						(B)	20.18			

S. No.	SOR No.	Particular	Measurement				Qty	Unit	Rate	Amount
			No.	L	B	D/H				
		<b>For Entrance Gate</b>								
		<b>Above 3.60M Ht.</b>								
		Above Guard Room Slab	4	0.20	0.40	0.90	0.29			
			8	0.45	0.45	3.80	6.16			
		Top inverted Beam	2	14.80	0.45	0.60	7.99			
			4	3.10	0.45	0.60	3.35			
			2	2.40	0.45	0.60	1.30			
		Slab	1	17.80	5.10	0.135	12.26			
		Coping above wall	2	12.60	0.20	0.075	0.38			
			1	10.40	0.20	0.075	0.16			
						(C)	<b>31.87</b>			
						(A+B+C)	<b>89.92</b>	<b>Cum</b>	4163.00	374349.00
4	3.4	Extra for laying PCC/RCC of any grade in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth:								
		Above Plinth	2	20.18			40.37	Cum	97.50	3936.00
			2	31.87			63.74	Cum	195.00	12429.00
5	2.1	Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:								
A	2.1.1	Foundations, footings, bases of columns plinth beam, curtain wall in any shape and size and all type of wall below plinth level.								
		<b>For Entrance Gate</b>								
		Combine Footing	2	14.60		0.50	14.60			
		FB	2	11.10		0.20	4.44			
			2	2.66		0.20	1.06			
		Combine Footing	1	17.60		0.50	8.80			
		FB	2	8.90		0.20	3.56			
		Single Footing	4	7.20		0.40	11.52			
		<b>For Entrance Gate</b>								
		For Guard Room	16	3.00		0.40	19.20			
			16	3.50		0.40	22.40			
		For Gate	4	6.00		0.50	12.00			
		For Dummy Room	4	2.80		0.40	4.48			
			4	2.40		0.40	3.84			
							<b>105.90</b>	<b>Sqm</b>	139.00	14721.00
B	2.1.5	Columns, Pillars, Piers and likes- rectangular or square in shape								
		<b>Columns upto Ground/Plinth Beam</b>								
		For Entrance Gate								
		Column upto Plinth	8	1.80		1.45	20.88			
			8	1.20		1.45	13.92			
						(A)	<b>34.80</b>	<b>Sqm</b>		
		<b>Above Plinth</b>								
		For Entrance Gate								
		Column up to Guard Room Slab Beam	8	1.80		3.15	45.36			
			8	1.20		3.15	30.24			
		Above 3.60M Ht.								
		Above Guard Room Slab	4	1.20		0.90	4.32			
			8	1.80		3.80	54.72			
						(B)	<b>59.04</b>	<b>Sqm</b>		
						(A+B)	<b>93.84</b>	<b>Sqm</b>	297.00	27870.00
C	2.1.8	Beams, lintels, cantilevers & walls								
		Lintel Beam	8	2.80		0.80	17.92			
			8	3.50		0.80	22.40			
			1	2.40		0.80	1.92			
		Slab Beam For Guard Room	4	2.80		1.10	12.32			
			4	3.50		1.10	15.40			
		Slab Beam For Dummy Room	2	2.80		1.10	6.16			
			2	2.40		1.10	5.28			
		Top inverted Beam	2	14.80		1.65	48.84			
			4	3.10		1.65	20.46			
			2	2.40		1.65	7.92			
							<b>158.62</b>	<b>Sqm</b>	202.00	32041.00
D	2.1.7	Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)								

S. No.	SOR No.	Particular	Measurement				Qty	Unit	Rate	Amount
			No.	L	B	D/H				
		Guard Room Slab	2	4.00	4.50		36.00			
		Dummy Room Slab	1	3.70	3.40		12.58			
		Above Window	2	0.45	1.50		1.35			
		<b>First Floor</b>								
		Slab	1	17.80	5.10		90.78			
							<b>140.71</b>	<b>Sqm</b>	235.00	33067.00
E	2.1.3	Window sills, anchor blocks, string course, bends, copings, bed plates and like.								
		Entrance Gate								
		Coping above wall	4	12.60		0.08	3.78			
			2	10.40		0.08	1.56			
							<b>5.34</b>	<b>Sqm</b>	184.00	983.00
6	1.18	Providing and filling in plinth with sand/ Crusher dust and hard moorum under floor in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering, including dressing etc. complete.								
		Total Excavated Earth	1				112.39			
		Deduct : PCC qty upto Plinth	1				-13.95			
		Deduct : RCC qty upto Plinth	1				-37.87			
		<b>For Entrance Gate</b>								
		Below Floor	2	2.40	3.10	0.45	6.70			
							<b>67.27</b>	<b>Cum</b>	371.00	24957.00
7	7.5	Brick work with modular fly-ash lime bricks (FaLG Bricks) confirming to IS:12894-2002 of class designation 4.0 in foundation and plinth in:								
	7.5.4	Cement Mortar 1:6 (1 cement : 6 coarse sand)								
		<b>For Entrance Gate</b>								
		For Guard Room	4	2.80	0.20	3.15	7.06			
			4	3.50	0.20	3.15	8.82			
		For Dummy Room	2	2.80	0.20	3.15	3.53			
			2	2.40	0.20	3.15	3.02			
		Deduct : Columns	8	0.45	-0.20	3.15	-2.27			
			2	0.20	-0.20	3.15	-0.25			
			2	0.40	-0.20	3.15	-0.50			
		Deduct : Opening	2	0.90	-0.20	2.40	-0.86			
			2	1.50	-0.20	1.50	-0.90			
			1	0.60	-0.20	0.60	-0.07			
		Oval Shape	4	1.18	-0.20	2.10	-1.98			
		Above Guard Room Slab	4	2.80	0.20	0.90	2.02			
			4	3.50	0.20	0.90	2.52			
		For Dummy Room	2	2.80	0.20	0.90	1.01			
			2	2.40	0.20	0.90	0.86			
		Deduct : Columns	8	0.45	-0.20	0.90	-0.65			
			2	0.20	-0.20	0.90	-0.07			
			2	0.40	-0.20	0.90	-0.14			
						<b>(A)</b>	<b>21.13</b>	<b>Cum</b>		
		Above Top Slab	2	4.70	0.20	0.45	0.85			
			2	17.80	0.20	0.45	3.20			
		Top - For Name Board	2	15.70	0.20	0.90	5.65			
			2	3.50	0.20	0.90	1.26			
						<b>(B)</b>	<b>10.96</b>	<b>Cum</b>		
						<b>(A+B)</b>	<b>32.09</b>	<b>Cum</b>	3263.00	104715.00
8	7.6	Extra for brick work in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth:								
		Above Plinth	1	21.13			21.13	Cum	121.00	2557.00
			1	10.96			10.96	Cum	242.00	2653.00
9	7.11	Half brick thick brick masonry with fly-ash lime bricks (FaLG Bricks) confirming to IS:12894-2002 of class designation 4.0 in superstructure above plinth level.								

S. No.	SOP No.	Particular	Measurement				Qty	Unit	Rate	Amount
			No.	L	B	D/H				
	7.11.2	Cement Mortar 1:4 (1 cement : 4 coarse sand)								
		Toilet Partition	1	2.4		3.60	8.64			
		Deduct : Door	-1	0.75		2.10	-1.58			
		Boxing	4	1.55		2.85	17.67			
		Above Window	2	2.8		1.20	6.72			
							<b>31.46</b>	<b>Sqm</b>	382.00	12016.00
10	7.12	Extra for half brick work in superstructure above plinth level for every story or part thereof in addition to rate for upto plinth level:								
							31.46	Sqm	11.00	346.00
11	7.20	Extra for providing and placing in position hopping 25x1.60 mm or 2 Nos 6mm dia MS bars reinforcement at every third course of half brick masonry.								
							31.46	Sqm	62.50	1966.00
12	8.1	Providing wood work in frames of doors, windows, clerestory windows and other frames wrought framed and fixed in position.								
	8.1.2	Sal, bijasal, benteak, khair, haldu	2	5.70	0.127	0.064	0.09			
			1	4.95	0.127	0.064	0.04			
							<b>0.13</b>	<b>Cum</b>	61051.00	8113.00
13	8.13	Providing and fixing flush door shutters, conforming to IS 2202 (Part 1), interior grade, commercial type, core of block board construction with frame of first class hard wood and well matched commercial ply veneering with vertical grains, cross bands and face veneers on both faces of shutters excluding hinges.								
	8.13.2	35 mm. thick (single leaf)	2	0.90		2.40	4.32			
			1	0.75		2.10	1.58			
							<b>5.90</b>	<b>Sqm</b>	1768.00	10422.00
14	8.132	Providing and fixing stainless steel butt hinges IS : 12817 marked with necessary stainless steel screws etc complete.								
	8.132.1	150x2.5mm (heavy)	3	8			24.00	Each	97.50	2340.00
15	8.137	Providing and fixing stainless steel sliding door bolts with 16mm rod, 2.5mm thick flap, necessary stainless steel nuts bolts and screws etc complete.								
	8.137.1	300mm	3	1			3.00	Each	238.00	714.00
16	8.138	Providing and fixing stainless steel door latch with 12mm rod, 2.5mm thick flap, necessary stainless steel screws etc complete.								
	8.138.1	300mm	3	1			3.00	Each	92.50	278.00
17	8.139	Providing and fixing stainless steel tower bolts (Barrel type) with necessary stainless steel screws etc complete.								
	8.139.1	250 x10mm	3	1			3.00	Each	97.00	291.00
18	8.141	Providing and fixing Stainless steel "D" shape door handles made of 10mm dia rod with necessary stainless steel screws etc complete.								
	8.141.2	150 mm	3	2			6.00	Each	49.50	297.00
19	8.3	Providing 40x5mm iron hold fast 40cm long including fixing to frame with 10mm bolts nuts and wooden plug and embedding in Cement Concrete 1:2:4 in blocks of size 30x10x15cm.								
			3	8			24.00	Each	72.50	1740.00
20	9.15	Providing and fixing M.S. grill of approved pattern made of M.S. flats or square or round bars welded to steel frame of windows etc. including applying a priming coat welded to frame with all necessary fitting complete including applying a priming of red oxide zinc chromate primer.								
		Window	2	1.50	20	1.50	90.00			
			1	0.60	20	0.60	7.20			

S. No.	SOP No.	Particular	Measurement				Qty	Unit	Rate	Amount
			No.	L	B	D/H				
		20kg/sqm					97.20	Kg	67.50	6561.00
21	9.47	Providing and fixing aluminium work for doors, windows, ventilators and partitions made out of extruded aluminium standard sections (main section with minimum 1.5mm thickness) conforming to IS: 733, IS: 1285 mitred and jointed mechanically including aluminium cleats, neoprene weather stripping gasket beveled edge beading, screws duly fixed in wall/floor with fixing clips or hold fasteners or bolts and nuts as required aluminium sections shall be anodized transparent or dyed to approved shade according to IS: 1868, minimum anodic coating shall be of grade AC-15. (Glazing to be paid for separately:								
	9.47.1	For fixed portion								
		Window	2	1.50	5	1.50	22.50			
			1	0.60	5	0.60	1.80			
		Oval Shape	4	1.18	5	2.10	49.56			
							73.86	Kg	331.00	24448.00
22	9.47.2	For shutter of doors, windows & ventilators including providing and making provision for fixing of fitting wherever required including the cost of PVC/neoprene gasket required (Fittings shall be paid for separately).								
		Window	2	1.50	5	1.50	22.50			
			1	0.60	5	0.60	1.80			
							24.30	Kg	338.00	8213.00
23	9.48	Extra for powder coated (minimum 50 micron) aluminium sections instead of anodized.					98.16	Kg	27.00	2650.00
24	9.51	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/ neoprene gasket etc. complete. (Cost of aluminium snap beading shall be paid in basic item):								
	9.51.1	With float glass panes of 4 mm thickness	2	1.50		1.50	4.50			
			1	0.60		0.60	0.36			
		Oval Shape	4	1.18		2.10	9.91			
							14.77	Sqm	611.00	9026.00
25	11.41	Providing and fixing chicken mesh weighting not less than 250 gms/sqm as per IS : specification in the required width with 40mm long steel nails on vertical and horizontal surface near R.C.C. and brick walls junctions including scaffolding and all lead and lifts etc. complete before plastering upto 10mts in height.								
		Beam	1	23.00	3.00	0.30	20.70			
		Column	10	4.00	0.30	3.60	43.20			
						Total	63.90	Sqm	86.00	5495.00
26	12.74	Providing and Fixing rectified glazed ceramic floor tiles of 1st quality conforming to IS: 15622-2017 of approved make, in all colours shade over 20mm thick bed of cement mortar 1:3 (1 cement:3 course sand) and joining with grey cement slurry @ 3.3kg per sqm. including pointing in white cement mixed with matching pigment complete.								
	12.74.1	Size 300x300 mm thickness 7 to 8 mm								
		Room	1	2.40	3.10		7.44			
		Room	1	2.40	1.80		4.32			
		Toilet	1	2.40	1.20		2.88			
		Skirting								
		Room	1	11.00		0.10	1.10			
			1	8.40		0.10	0.84			
							16.58	Sqm	779.00	12916.00

S. No.	SOP No.	Particular	Measurement				Qty	Unit	Rate	Amount
			No.	L	B	D/H				
27	12.75	Providing and Fixing rectified glazed ceramic wall/dado tiles of 1st quality conforming to IS: 15622-2017 of approved make, in all colours shade in wall and dado over 12mm thick bed of cement mortar 1:3 (1 cement:3 course sand) and joining with grey cement slurry @ 3.3kg per sqm. including pointing in white cement mixed with matching pigment complete.								
	12.75.1	Size 300x450 mm thickness 7 to 8 mm								
		Toilet	2	2.40		2.40	11.52			
			2	1.20		2.40	5.76			
		Door	-1	0.75		2.10	-1.58			
							15.71	Sqm	710.00	11151.00
28	11.1	Providing and making 6mm thick cement plaster of mix:								
	11.1.2	In Cement mortar 1:4 (1 cement : 4 fine sand)								
		Guard Room Slab	2	3.70	4.50		33.30			
		Dummy Room Slab	1	3.70	3.40		12.58			
		Above Window	2	0.45	1.50		1.35			
		Beam offset	4	14.80		1.20	71.04			
			4	5.10		1.20	24.48			
							142.75	Sqm		
		Add 5% unseen	1	142.75	5%		7.14			
							149.89	Sqm	87.00	13040.00
29	11.2	Providing and making 12mm thick cement plaster of mix:								
	11.2.3	In Cement Mortar 1:5 (1 cement : 5 fine sand)								
		<b>For Entrance Gate</b>								
		Guard Room	2	2.40		3.60	17.28			
			2	3.10		3.60	22.32			
		Room	2	2.40		3.60	17.28			
			2	1.80		3.60	12.96			
		Toilet	2	2.40		3.60	17.28			
			2	1.20		3.60	8.64			
		Dummy Room	2	2.00		3.60	14.40			
			2	2.40		3.60	17.28			
		Above Slab	4	2.40		0.90	8.64			
			4	3.10		0.90	11.16			
		Deduct : 50% Opening Area								
		Door	2	0.90	-50%	2.40	-2.16			
		Window	2	1.50	-50%	1.50	-2.25			
			1	0.75	-50%	2.10	-0.79			
			1	0.60	-50%	0.60	-0.18			
		Oval Shape	4	1.18	-50%	2.10	-4.96			
		Total 12mm Plaster					136.91	Sqm	96.50	13211.00
30	11.7	Providing and making 18 mm thick cement plaster with under layer of 12mm thick cement plaster 1:5 (1 cement : 5 fine sand) finished with a top layer of 6mm thick cement plaster 1:3 (1 cement : 3 fine sand).								
		<b>For Entrance Gate</b>								
		Exterior Wall	4	2.80		4.05	45.36			
			4	3.50		4.05	56.70			
		Above Guard room	4	2.80		0.90	10.08			
			4	3.50		0.90	12.60			
		Dummy Room	2	2.40		4.05	19.44			
			2	2.80		4.05	22.68			
			2	2.40		0.90	4.32			
			2	2.80		0.90	5.04			
		Column above Room	8	1.80		2.00	28.80			
		Top Slab	2	18.80		0.60	22.56			
			2	5.10		0.60	6.12			
		For - Sign Board	2	15.70		0.90	28.26			
			2	3.50		0.90	6.30			
		Deduct : 50% Opening Area								
		Door	2	0.90	-50%	2.40	-2.16			
		Window	2	1.50	-50%	1.50	-2.25			

S. No.	SOR No.	Particular	Measurement				Qty	Unit	Rate	Amount
			No.	L	B	D/H				
			1	0.60	-50%	0.60	-0.18			
		Oval Shape	4	1.18	-50%	2.10	-4.96			
		Total 18mm Plaster					<b>258.71</b>	<b>Sqm</b>		
		Add 5% Columns Offsets	1	258.71	5%		12.94			
							<b>271.65</b>	<b>Sqm</b>	163.00	44279.00
31	14.13	Providing and applying 2mm thick ready mix exterior grade approved make putty (like Birla wall care, Alltek Superfine W/R of (NCL), Asian, ICI, Nerolac, J.K. wall putty) on walls to make the surface smooth and even.								
		12mm Plaster					136.91			
		18mm Plaster					271.65			
							<b>408.56</b>	<b>Sqm</b>	94.50	38609.00
32	14.22	Painting on new work (two or more coats) to give an even shade with:								
	14.22.2	Premium synthetic enamel paint								
		Window Grill	2	1.50	0.5	1.50	2.25			
			2	6.00	1.5	2.20	39.60			
							<b>41.85</b>	<b>Sqm</b>	47.00	1967.00
33	11.30.2	Moulding cornices and cover.	2	12.60		0.30	7.56			
			1	10.40		0.30	3.12			
							<b>10.68</b>			
	11.30.2.1	Straight cornices in their length	11		50%		5.34	Sqm	69.00	368.00
	11.30.2.2	Curved cornices in their length	11		50%		5.34	Sqm	91.50	489.00
34	11.40	Making grove in cement plaster while plastering upto 10 mm deep and 10 mm wide.								
		For Entrance Gate	20	12.60	3	for 3cm	756.00			
			10	10.40	3	for 3cm	312.00			
							<b>312.00</b>	<b>Mtr</b>	1.30	406.00
35	9.6	Steel work welded in built up sections/ framed work including cutting, hoisting, fixing in position and applying a priming coat of red oxide zinc chromate primer.								
	9.6.2	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.								
		For Front Compound Wall								
		For Gate	2	6.00	75	2.20	1980.00			
							<b>1980.00</b>	<b>Kg</b>	68.00	134640.00
36	9.60	Designing, providing and fixing aluminium frame work made of special aluminium section on building face with M.S. angle iron brackets fixed on RCC structure with S.S. hold fasteners, including providing and fixing two sided structural adhesive tape of appropriate grade (NORTON or equivalent), on aluminium sections for fixing aluminium/ glass panel, sealing on periphery of frame work, by providing EPDM gasket, silicon weather sealant between aluminium frame and building structure including hire charges of double scaffolding complete.								
							100.00	Kg	357.00	35700.00
37	9.61	Providing and fixing aluminium composite panels in approved panel sizes, thickness and shape on aluminium frame work on face of building. (Frame to be paid separately)								
	9.61.2	4mm thick								
			2	3.00		4.00	24.00			
			1	9.00		3.00	27.00			
							<b>51.00</b>	<b>Sqm</b>	1745.00	88995.00
<b>Total Rs. :-</b>										<b>1187190.00</b>
<b>2 No. of Gate :-</b>										<b>2374380.00</b>
<b>To Say (In Lakh) :-</b>										<b>23.74</b>

<b>DETAILED ESTIMATE FOR THE CONSTRUCTIONS ON GAD C COLONY OFFICE UNDER REDEVELOPMENT YOJANA AT KAILASH NAGAR RAJNANDGAON (C.G.)</b>										
<b>OUTSIDE BOUNDRY WALL GAD</b>										
S. No.	SOR No.	Particular	Measurement				Qty	Unit	Rate	Amount
			No.	L	B	D/H				
		Boundry wall length- METERS		400	Meter					
		Column c/c - <b>3.0</b>								
1	1.1.1	Excavation in all types and sizes of foundations trenches and drains or for any purpose including disposal of excavated stuff upto 1.50 m lift and lead upto 50 m ( at least 5 m away from the excavated area ) , including dressing and levelling of pits	133							
		For Column	133	1.20	1.20	1.20	230.40			
		For Expansion Joint Column	9	1.20	1.20	1.20	15.55			
							<b>245.95</b>	<b>Cum</b>	185.00	45501.12
2	1.18	Providing and filling in plinth with sand/ Crusher dust and hard moorum under floor in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering, including dressing etc. complete.								
		For Column	133	1.20	1.20	0.10	19.20			
		For Expansion Joint Column	9	1.20	1.20	0.10	1.30			
							<b>20.50</b>	<b>Cum</b>	371.00	7604.02
3	3.1.3	Providing and laying nominal mix cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work. 1:3:6 (1 cement :3 coarse sand :6 graded stone aggregate 40 mm nominal size).								
		For Column	133	1.20	1.20	0.10	19.20			
		For Expansion Joint Column	9	1.20	1.20	0.10	1.30			
							<b>20.50</b>	<b>Cum</b>	2970.00	60873.12
4	3.2	Providing and laying nominal mix reinforced cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level Excluding cost of form work.								
	3.2.1	1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).								
		Footing	133	1.10	1.10	0.35	56.47			
		For Expansion Joint Column	9	1.10	1.10	0.35	3.81			
		Column R.C.C. upto G.L.	142	0.20	0.30	0.65	5.55			
		Plinth Beam	1	400.00	0.20	0.30	24.00			
		Column above ground level	142	0.20	0.30	2.50	21.35			
		Top Copping column	142	0.30	0.40	0.20	3.42			
		Top Copping for wall	1	400.00	0.30	0.15	18.00			
							<b>132.60</b>	<b>Cum</b>	4163.00	551993.68
5	2.1	Providing and fixing formwork including centering, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels for								
	2.1.1	Foundations, footings, base of columns and plinth beam in any shape and size.								
		PCC	133	4.80		0.10	64.00			
		Footing	133	4.40		0.35	205.33			
		For Expansion Joint Column	9	4.40		0.35	13.86			
		Column R.C.C. upto G.L.	142	1.00		0.65	92.52			
		Plinth Beam	1	400.00		0.80	320.00			
							<b>695.71</b>	<b>Sqm</b>	139.00	96703.69
6	2.1.5	Columns, pillars, piers and likes- rectangular or square in shape								
		Column above ground level	133	1.00		2.50	333.33			
		For Expansion Joint Column	9	1.00		2.50	22.50			
		Top Copping column	142	1.40		0.20	39.85			
		Top Copping for wall	2	800.60		0.15	240.18			
							<b>635.87</b>	<b>Sqm</b>	297.00	188852.40

S. No.	SQR No.	Particular	Measurement				Qty	Unit	Rate	Amount
			No.	L	B	D/H				
7	7.5.4	Brick work with modular FLY ASH lime bricks (Falg brick) confirming to ISI 12894:2002 of class designation 40 in foundation and plinth in: Cement Mortar 1:6 (1 Cement : 6 Coarse Sand)								
		brick work up to plinth beam	1	400.00	0.20	0.30	24.00			
							<b>24.00</b>	<b>Cum</b>	3263.00	78312.00
8	7.5.4	Brick work with modular FLY ASH lime bricks (Falg brick) confirming to ISI 12894:2002 of class designation 40 in foundation and plinth in: Cement Mortar 1:6 (1 Cement : 6 Coarse Sand)								
		brick work	1	400.00	0.20	1.50	120.00			
							<b>120.00</b>	<b>Cum</b>	3263.00	391560.00
9	7.6	Extra for brick work in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth:								
		brick work					120.00			
							<b>120.00</b>	<b>Cum</b>	121.00	14520.00
10	9.15	Providing and fixing M.S. grill of approved pattern made of M.S. flats or square or round bars welded to steel frame of windows etc. including applying a priming coat welded to frame with all necessary fitting complete including applying a priming of red oxide zinc chromate primer.								
		Grill over brick work	1	400.00		1.00	400.00			
							<b>400.00</b>	<b>Sqm</b>		
							<b>8000.00</b>	<b>Kg</b>	67.50	540000.00
11	1.17	Filling from available excavated stuff (Excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering with a lead upto 50 M. and lift upto 1.5 M.								
		Excavation					245.95			
		SAND					-20.50			
		PCC					-20.50			
		RCC Footing					-52.66			
		Column upto G.L.					-21.35			
							<b>130.95</b>	<b>Cum</b>	65.00	8512.06
12	3.13	Providing and laying damp proof course (upto 50mm thick) with plain cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded crushed stone aggregate 20mm nominal size) including form work.								
			1	400.00	0.20	0.10	8.00	Cum	4237.00	33896.00
13	3.12.4	Providing and placing position reinforcement for R.C.C work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire all complete.								
		Thermo Mechanically treated bars								
			1	120kg/cum			15911.42	Kg	54.50	867172.39
14	11.2.4	Providing and making 12 mm thick cement plaster of mix:								
		In Cement Mortar 1:6 (1 cement : 6 fine sand)								
		wall	1	400.00		1.50	600.00			
		column	142	1.00		1.00	142.33			
							<b>742.33</b>	<b>Sqm</b>	91.50	67923.50

S. No.	SOR No.	Particular	Measurement				Qty	Unit	Rate	Amount
			No.	L	B	D/H				
15	11.3.4	Providing and making 15 mm thick cement plaster on the rough side of single or half brick wall of mix								
		In cement Mortar 1:6 ( 1 cement : 6 fine sand)								
		wall	1	400.00		1.50	600.00			
		Top Copping column	142	1.40		0.20	39.85			
							639.85	Sqm	107.00	68464.31
16	11.40	Making groove in cement plaster while plastering upto 10 mm deep and 10 mm wide.								
		wall	1	400.00			400.00	Mtr	1.30	520.00
17	3.21	Providing and fixing in position impregnated fibre board confirming to IS: 1838 in expansion joints, including cost of primer, sealing compound all complete.								
	3.21.2	25mm thick	9		0.30	2.50	6.75	Sqm	768.00	5184.00
18	14.17	Painting exterior surface with TEXTURED exterior paints of required shades as per manufacture specification to give protective and decorative finish including cleaning washing of surface etc. complete with								
	14.17.1	On new work (two or more coats applied @ 3.28ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)								
		Qty same as Plaster					1382.19	Sqm	140.00	193506.13
Total Rs. :-										3221098.42
To Say :-										3221098.00
To Say (In Lakh) :-										32.21

PROJECT ESTIMATE FOR THE CONSTRUCTION OF GAD CELL ONY OFFICE UNDER REDEVELOPMENT YOJANA AT KAILASH NAGAR RAJNANDGAON (C.G.)										
OPEN PARKING GAD										
S. No.	SOR No.	Particular	Measurement				Qty	Unit	Rate	Amount
			No.	L	B	D/H				
		Excavation in Soil (by Mechanical Means.)								
1	3.2	Excavation for roadway in soil using mechanical means including loading in tipper for carrying of cut earth to embankment site and unloading with all lifts and lead upto 1000 meters as per relevant clauses of section 300.								
		Area	1	1075.00	Sqm	0.30	322.50			
							322.50	Cum	95.00	30,638.00
2	3.15	Compacting Original Ground								
	(ii)	Compacting Original Ground supporting embankment Loosening, leveling and compacting original ground to facilitate placement of first layer of embankment, scarified to a depth of 150 mm, mixed with water at O.M.C. and then compacted by rolling so as to achieve minimum dry density as given in table 300-2 for embankment construction.								
		Area	1	1075.00	Sqm	0.30	322.50			
							322.50	Cum	28.00	9,030.00
	4.1	Granular Sub-base as per Table:- 400-1 Construction of granular sub-base by providing graded Material, , carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface watering, rolling and compacting with vibratory power roller at OMC to achieve the desired density, complete as per clause 401								
	A	Plant mix method (with Mechanically crushed stone only)								
	(a)	For Lower Sub-base with								
	(i)	Grading-III Material								
		Area	1	1075.00	Sqm	0.20	215.00			
							215.00	Cum	1,423.00	3,05,945.00
5	6.1	Dry Lean Cement Concrete Sub-base as per IRC:SP-49 (Construction of dry lean cement concrete Sub-base over a prepared sub-grade with coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 26.5 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per table 600-1, cement content not to be less than 150 kg/cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days,mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller,finishing and curing as per clause 601.)								
		Area	1	1075.00	Sqm	0.25	268.75			
							268.75	Cum	2,332.00	6,26,725.00
6	12.65	Providing & laying 60mm thick precast interlocking concrete blocks of approved size (approx 305 sqcm) and shape/ pattern, over 40 mm thick average complete coarse sand bed with joints of 3mm thick filled by fine sand including leveling with surface vibrator, temping and sweeping etc. complete of minimum compressive strength of 250 kg/sq.cm								

S. No.	SOR No.	Particular	Measurement				Qty	Unit	Rate	Amount
			No.	L	B	D/H				
	12.65.2	Pigment Coloured (rubber mould) precast interlock concrete blocks								
		Area	1	1075.00	Sqm		1075.00			
							<b>1075.00</b>	<b>Sqm</b>	632.00	6,79,400.00
Total Rs. :-										<b>16,51,738.00</b>
To Say (In Lakh) :-										<b>16.52</b>

PROJECT ESTIMATE FOR THE CONSTRUCTION OF KAILASH NAGAR COLONY OFFICE UNDER REDEVELOPMENT YOJANA AT KAILASH NAGAR RAJNANDGAON (C.G.)										
CC ROAD GAD										
S. No.	SOR No.	Particular	Measurement				Qty	Unit	Rate	Amount
			No.	L	B	D/H				
		Excavation in Soil (by Mechanical Means.)								
1	3.2	Excavation for roadway in soil using mechanical means including loading in tipper for carrying of cut earth to embankment site and unloading with all lifts and lead upto 1000 meters as per relevant clauses of section 300.								
		Road 12.0M	1	25.00	12.00	0.25	75.00			
		Road 9.0M	1	45.00	9.00	0.25	101.25			
		Road 7.5M	1	125.00	7.50	0.25	234.38			
		Road 6.0M	1	131.00	6.00	0.25	196.50			
							607.13			
		Extra For Curve & Junction 5%	1	607.13	5%		30.36			
							637.48	Cum	103.00	65661.00
2	3.15	Compacting Original Ground								
	(ii)	Compacting Original Ground supporting embankment Loosening, leveling and compacting original ground to facilitate placement of first layer of embankment, scarified to a depth of 150 mm, mixed with water at O.M.C. and then compacted by rolling so as to achieve minimum dry density as given in table 300-2 for embankment construction.								
		Road 12.0M	1	25.00	12.00	0.30	90.00			
		Road 9.0M	1	45.00	9.00	0.30	121.50			
		Road 7.5M	1	125.00	7.50	0.30	281.25			
		Road 6.0M	1	131.00	6.00	0.30	235.80			
							728.55			
		Extra For Curve & Junction 5%	1	728.55	5%		36.43			
							764.98	Cum	28.00	21420.00
3	3.13	Construction of sub-grade with Material <b>Obtained from Borrow Pits/Borrow Area</b> (Construction of sub-grade with approved material/selected soil having C.B.R.>8 (unless specified otherwise in the contract) obtained from borrow pits with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement of table 300-2)								
		Road 12.0M	1	25.00	12.00	0.30	90.00			
		Road 9.0M	1	45.00	9.00	0.30	121.50			
		Road 7.5M	1	125.00	7.50	0.30	281.25			
		Road 6.0M	1	131.00	6.00	0.30	235.80			
							728.55			
		Extra For Curve & Junction 5%	1	728.55	5%		36.43			
							764.98	Cum	268.00	205014.00
4	4.1	Granular Sub-base as per Table:- 400-1 Construction of granular sub-base by providing graded Material, , carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface watering, rolling and compacting with vibratory power roller at OMC to achieve the desired density, complete as per clause 401								
	A	Plant mix method (with Mechanically crushed stone only)								
	(a)	For Lower Sub-base with								
	(i)	Grading-III Material								
		Road 12.0M	1	25.00	12.00	0.20	60.00			
		Road 9.0M	1	45.00	9.00	0.20	81.00			
		Road 7.5M	1	125.00	7.50	0.20	187.50			
		Road 6.0M	1	131.00	6.00	0.20	157.20			
							485.70			
		Extra For Curve & Junction 5%	1	485.70	5%		24.29			
							509.99	Cum	1568.00	799657.00

S. No.	SOP No.	Particular	Measurement				Qty	Unit	Rate	Amount
			No.	L	B	D/H				
5	4.1	Granular Sub-base as per Table:- 400-1 Construction of granular sub-base by providing graded Material, carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface watering, rolling and compacting with vibratory power roller at OMC to achieve the desired density, complete as per clause 401								
	A	Plant mix method (with Mechanically crushed stone only)								
	(b)	For Sub-base cum drainage layer or upper sub-base with								
	(i)	Grading-V Material								
		Road 12.0M	1	25.00	10.40	0.20	52.00			
		Road 9.0M	1	45.00	7.70	0.20	69.30			
		Road 7.5M	1	125.00	6.20	0.20	155.00			
		Road 6.0M	1	131.00	5.00	0.20	131.00			
							<b>407.30</b>			
		Extra For Curve & Junction 5%	1	407.30	5%		20.37			
							<b>427.67</b>	<b>Cum</b>	1573.00	672718.00
6	6.1	Dry Lean Cement Concrete Sub-base as per IRC:SP-49 (Construction of dry lean cement concrete Sub-base over a prepared sub-grade with coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 26.5 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per table 600-1, cement content not to be less than 150 kg/cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days,mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller,finishing and curing as per clause 601.)								
		Road 12.0M	1	25.00	10.40	0.20	52.00			
		Road 9.0M	1	45.00	7.70	0.20	69.30			
		Road 7.5M	1	125.00	6.20	0.20	155.00			
		Road 6.0M	1	131.00	5.00	0.20	131.00			
							<b>407.30</b>			
		Extra For Curve & Junction 5%	1	407.30	5%		20.37			
							<b>427.67</b>	<b>Cum</b>	2562.00	1095678.00
7	6.2	Cement Concrete Pavement (Construction of un-reinforced, dowel jointed, plain cement concrete pavement over a prepared sub-base, coarse and fine aggregate conforming to IS:383, and graded as per table 600-3, mixed as per approved mix design at site, laid, spread, vibrated, compacted and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, sealant primer, joint sealant, de-bonding strip, dowel bar, tie rod, admixtures as approved, curing compound, finishing to lines and grades as per drawing as per clause 602.)								
	6.2.A.ii)	With Cement concrete grade M-30 and minimum cement content @ 375 kg/cum.								
		Road 12.0M	1	25.00	10.40	0.30	78.00			
		Road 9.0M	1	45.00	7.70	0.30	103.95			
		Road 7.5M	1	125.00	6.20	0.30	232.50			
		Road 6.0M	1	131.00	5.00	0.30	196.50			
							<b>610.95</b>			
		Extra For Curve & Junction 5%	1	610.95	5%		30.55			
							<b>641.50</b>	<b>Cum</b>	4881.00	3131150.00

[illegible]

<p align="center"><b>PROJECT ESTIMATE FOR THE CONSTRUCTIONS ON GAD C COLONY OFFICE UNDER REDEVELOPMENT YOJANA AT KAILASH NAGAR RAJNANDGAON (C.G.)</b></p>										
<b>RCC DRAIN GAD</b>										
S. No.	SOR No.	Particular	Measurement				Qty	Unit	Rate	Amount
			No.	L	B	D/H				
1	3.19	<b>Construction of RCC open drain</b>								
A	B. (ii)	Construction of RCC open drain 0.60m x 0.60m inside dimension lined with 120 mm thick RCC M-20 walls, 120 mm thick CC M-20 foundation, over 100 mm thick (Av) leveling course in PCC M-15 including excavation , dressing of sides and bottom, provision of HYSD reinforcement consisting 8 mm die horizontal bars @ 150 mm c/c and L-shaped 8 mm die vertical bars @ 150 mm c/c (L= 800 mm) including cutting , bending and binding wire, placing in position , providing shuttering and concreting by using concrete mixer, compaction by vibration etc complete as per drawings and technical specifications.								
		Drain (0.6x0.6 m)	1	700.00			700.00			
							<b>700.00</b>	<b>Mtr</b>	3255.00	2278500.00
2	3.27	<b>Construction of RCC Drain/Cover/Chamber</b>								
	(ii)	Construction of RCC drain/chamber cover, placing in position, providing shuttering and concreting by using concrete mixer, compaction by vibration etc complete as per drawings and technical specifications excluding reinforcement.								
		with RCC M-20								
		0.6x0.6 m	1	700.00	0.85	0.125	74.38			
							<b>74.38</b>	<b>Cum</b>	4724.00	351347.50
3	3.27	<b>Construction of RCC Drain/Cover/Chamber</b>								
	(iii)	Supplying, Fitting and Placing un-coated HYSD bar Reinforcement in drain/cover/chamber complete as per Drawing and Technical Specifications. (Make- Nakoda/Fortune/GK/KORE or equivalent approved by engineer incharge)								
		For Cover @100Kg/Cum		74.38			7437.50	Kg		
							<b>7.44</b>	<b>MT</b>	65434.00	486665.38
4	9.2	Providing and laying Reinforced Cement Concrete pipe NP 4 / prestressed concrete pipe on first class bedding (Laying Reinforced cement concrete pipe NP4/prestressed concrete pipe for culverts on first class bedding of granular material including fixing collar with cement mortar 1:2 and bedding as per clause 2904 but excluding excavation, protection works, backfilling, concrete and masonry works in head walls and parapets.)								
	A	600 mm dia	1	85.00			85.00	Mtr	3064.00	260440.00
		<b>Utility Duct</b>								

S. No.	SOR No.	Particular	Measurement				Qty	Unit	Rate	Amount
			No.	L	B	D/H				
5	Road SOR 2025 9.7	Providing and laying of a reinforced cement concrete pipe duct, 300 mm dia., across the road ( new construction ) , extending from drain to drain in cuts and toe of slopes to toe of slopes in fills, constructing head walls at both ends, providing a minimum fill of granular material over top and sides of RCC pipes as per IRC: 98-2011, bedded on a 0.3 m thick layer of granular material free of rock pieces , outer to outer distance of pipes at least half dia of pipe subject to minimum 450 mm in case of double and triple row ducts , joints to be made leak proof, invert level of duct to be above higher than ground level to prevent entry of water and dirt, all as per IRC:98-2011 and approved drawings.								
	A.(i)	Single row for one utility service	1	700.00			700.00			
							<b>700.00</b>	<b>Mtr</b>	1117.00	781900.00
6	9.2	Structural steel work riveted or bolted or welded in built-up sections, trusses and frames work upto a height of 5m above plinth level, including cutting, hoisting, fixing in position and applying a priming coat of red oxide zinc chromate primer.								
		Angle section 60x60x5 mm					700.00			
				@7Kg/Mtr			<b>4900.00</b>	<b>Kg</b>	66.00	323400.00
<b>Total Rs. :-</b>										<b>4482252.88</b>
<b>To Say :-</b>										<b>4482253.00</b>
<b>To Say (In Lakh) :-</b>										<b>44.82</b>

<b>PROJECT ESTIMATE FOR THE CONSTRUCTIONS ON GADIC COLONY OFFICE UNDER REDEVELOPMENT YOJANA AT KAILASH NAGAR RAJNANDGAON (C.G.)</b>										
LANDSCAPING GAD										
S. No.	SOR No.	Particular	Measurement				Qty	Unit	Rate	Amount
			No.	L	B	D/H				
		<b>Landscape Work</b>								
1	1.1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits.								
	1.1.1	In all types of soil	1	1411.00	Sqm	0.50	705.50	Cum	185.00	130517.50
2	22.2	Suppling and stacking of good earth at site including royalty,loading,unloading and carriage upto 10km (earth measured in stacks will be reduced by 20% for payment)								
		@90% of area	1	1269.90	Sqm	1.00	1269.90	Cum	201.00	255249.90
3	1.18	Providing and filling in plinth with sand/ Crusher dust and hard moorum under floor in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering, including dressing etc. complete.								
		@20% of area	1	282.20	Sqm	1.00	282.20	Cum	371.00	104696.20
4	22.4	Supplying and stacking at site well decayed cow dung manure from approved source, including loading, unloading and carriage upto 5 km (manure measured in stacks will be reduced by 8% for payment).								
		@10% of area	1	141.10	Sqm	1.00	141.10	Cum	236.00	33299.60
5	22.8	Spreading of sludge, dump manure or/and good earth in required thickness (Cost of sludge, dump manure or/ and good earth to be paid separately).								
							1693.20	Cum	17.50	29631.00
6	22.25	Providing and Planting following herbs in garden including preparation of soil,base plantation, providing and spreading different fertilizers, soil and sand.								
	22.25.4	22.25.4 Carpet Grass(Well developed)								
			1	1411.00	Sqm		1411.00	Sqm	263.00	371093.00
7	Road SOR 4.18	Providing and fixing kerb stones 100 mm thick and 600 mm wide chisel dressed cut stones fixed in CC 1:3:6 (block size 250 x 225 mm) including all excavation.								
			1	255.00			255.00	Rm	298.00	75990.00
8	Road SOR 12.6	Providing and planting of 3"0" to 4"0" heighted wasingtonia, filipheria/bismarkia novelist plam plants with 1"6" x 1"6" depth pit formation and soil preparation, (Mixing organic manure and plant"s protection insecticide). Up to 4 month maintenance.								
							175.00	Each	888.00	155400.00
9	Road SOR 12.7	Providing and planting of 4"0" to 5"0" heighted Ficus prestige/Blackiana plants with 1"6" x 1"6" depth pit formation and soil preparation, (Mixing organic manure and plant"s protection insecticide). Up to 4 month maintenance.								
							184.00	Each	627.00	115368.00
10	Road SOR 12.8	Providing and planting of Bogenbelia dwarf, chandni dwarf, kaner dwarf vr flower bearing plants with 0"9" x 0"9" depth pit formation and soil preparation work"s, (Mixing organic manure and plant"s protection insecticide). Up to 4 month maintenance								
							192.00	Each	84.00	16128.00

S. No.	SOR No.	Particular	Measurement				Qty	Unit	Rate	Amount
			No.	L	B	D/H				
11	Road SOR 12.9	Providing and planting of dwarf red Ekalyha plants showing mass effect view with 0"9" x 0"9"x1"0" depth pit formation and soil preparation work"s, (Mixing organic manure and plant"s protection insecticide). Up to 4 month maintenance								
							174.00	Each	68.00	11832.00
12	Road SOR 12.10	Providing and planting of plumeria (Champa) 2"0" to 3"0" heighted plants with 1"0" x 1"0"x1"6" depth pit formation and soil preparation work"s, (Mixing organic manure and plant"s protection insecticide). Up to 4 month maintenance					156.00	Each	361.00	56316.00
13	7.5	Brick work with modular fly-ash lime bricks (FaLG Bricks) confirming to IS:12894-2002 of class designation 4.0 in foundation and plinth in:								
	7.5.4	Cement Mortar 1:6 (1 cement : 6 coarse sand)								
		Wall	1	255	0.20	2.00	102.00	cum	3263.00	332826.00
14	9.15	Providing and fixing M.S. grill of approved pattern made of M.S. flats or square or round bars welded to steel frame of windows etc. including applying a priming coat welded to frame with all necessary fitting complete including applying a priming of red oxide zinc chromate primer.								
		Wall Grill 35 kg per sqm	1	255		1	8925.00	kg	67.50	602437.50
Total Rs. :-										2290784.70
To Say :-										2290785.00
To Say (In Lakh) :-										22.91

PROJECT ESTIMATE FOR THE CONSTRUCTION OF BOREWELL ON KAILASH NAGAR RAJNANDGAON (C.G.) UNDER REDEVELOPMENT YOJANA AT KAILASH NAGAR RAJNANDGAON (C.G.)										
BOREWELL GAD										
S. No.	SOR No.	Particular	Measurement				Qty	Unit	Rate	Amount
			No.	L	B	D/H				
1	CG PWD BUILDING SOR 21.1	Boring/drilling bore well perfectly vertical for the specified depth suitable to receive required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer-in-charge upto 90 metre depth below ground level.								
	21.1.1	All types of soil								
	21.1.1.3	150 mm dia.	1	25.00			25.00	M	339.00	8475.00
	21.2.2	Rocky strata including Boulders.								
	21.2.2.3	150 mm dia.	1	85.00			85.00	M	424.00	36040.00
2	CG PWD ELECTRIC SOR 21.5	Supplying, assembling, lowering and fixing in vertical position in bore well, ISI marked G.I. casing pipe (Plain) medium class in 4 to 7 meters length one end fitted with socket as per IS: 1239 (Part-1&Part-2) 1992 with IVth revision (Up-to-date amendments), of reputed & approved make, including required hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of Engineer- in-charge.								
	21.5.3	150 mm nominal dia	1	25.00			25.00	M	1304.00	32600.00
3	21.12	Providing and fixing M.S. clamp of required dia to the top of casing/ housing pipe of tube well as per IS: 2800 (part I), including necessary bolts & nuts of required size complete.								
	21.12.3	150 mm clamp.	1				1.00	each	1055.00	1055.00
4	21.16	Providing ISI Mark 32 mm dia G.I. ( B class) riser pipe and M.S. plunger rod in 3 meter length socketed on one end as per IS: 1239 ( Part I) 1990 with up to date amendments and socket as per IS: 2062/1990 up to date amendments.								
			1	25.00			25.00	m	275.00	6875.00
5	26.3	Providing ISI Mark 32 mm dia G.I. ( B class) riser pipe and M.S. plunger rod in 3 meter length socketed on one end as per IS: 1239 ( Part I) 1990 with up to date amendments and socket as per IS: 2062/1990 up to date amendments.								
	26.3.4	3.0 HP, three phase	1				1.00	each	22669.00	22669.00
	26.3.5	5.0 HP, three phase	1				1.00	each	26110.00	26110.00
6	26.5	Supplying and fixing of following sizes 'B' class G I pipe with all necessary Tee's, bends, sockets in the suction/ delivery line including cutting and threading etc. as required.								
	26.5.4	50 mm dia.	150				150.00	m	463.00	69450.00
7	26.7	Supplying and fixing of following sizes GM gate valve ISI mark in the suction/ delivery line etc. as required.								
	26.7.4	50 mm dia.	2				2.00	each	1048.00	2096.00

S. No.	SOR No.	Particular	Measurement				Qty	Unit	Rate	Amount
			No.	L	B	D/H				
8	26.8	Supplying and fixing of following sizes GM non return valve ISI mark in the suction/delivery line etc. as required.								
	26.8.4	50 mm dia.	1				1.00	each	1289.00	1289.00
9	26.9	Supply, installation, testing and commissioning of 10-15 HP 3 phase submersible motor starter cum control wall/ floor mounted type made out of not less than 1.6 mm thick MS sheet and comprising of following panel mounting switchgears there in including connection inter connection etc. as required. a) Phase indicating lamps with fuses and toggle switches 1 set b) 10/12.5/15 HP 3 phase automatic Star-delta starter with over load and no volt relay 1 No c) 32 A "C" curve TPMCB 1 No d) Voltmeter 0-500 V with selector switch 1 set e) Ammeter 0-10 A with CT's and selector switch 1 set.	1				1.00	each	8450.00	8450.00
10	26.12	Supplying and fixing M.S. clamp 50 cm long made of 50mmx5mm thick M.S. Flat for holding the pipes and submerable pump set as required.	1				1.00	each	314.00	314.00
11	26.13	Supplying and fixing 300 mm dia 2 mm thick M.S. sheet cover with 3 cm edge in two past on tube well bore pipe as required	1				1.00	each	393.00	393.00
<b>Total Rs. :-</b>										<b>215816.00</b>
<b>To Say :- for 2 nos</b>										<b>431632.00</b>
<b>To Say (In Lakh) :-</b>										<b>4.32</b>

<p align="center"><b>PROJECT ESTIMATE FOR THE CONSTRUCTION OF KAILASH NAGAR COLONY OFFICE UNDER REDEVELOPMENT YOJANA AT KAILASH NAGAR RAJNANDGAON (C.G.)</b></p>										
<b>PUMP HOUSE GAD</b>										
S. No.	SOR No.	Particular	Measurement				Qty	Unit	Rate	Amount
			No.	L	B	D/H				
1	1.1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits.								
	1.1.1	In all types of soils.								
		Footing	4	1.50	1.50	1.80	16.20			
		For Beam	4	2.40	0.20	0.30	0.58			
							<b>16.78</b>	<b>Cum</b>	185.00	3103.56
2	1.6	Extra for every additional lift of 1.5 m or part thereof.								
	1.6.1	All types of soils								
		Footing	4	1.50	1.50	0.30	2.70	Cum	26.50	71.55
3	3.1	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.								
	3.1.3	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).								
		Footing	4	1.50	1.50	0.15	1.35			
		For Beam	4	2.40	0.20	0.10	0.19			
		For Floor	1	2.40	2.40	0.10	0.58			
							<b>2.12</b>	<b>Cum</b>	2970.00	6290.46
4	3.2	Providing and laying nominal mix reinforced cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.								
	3.2.1	1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).								
		Footing	4	1.30	1.30	0.40	2.70			
		Column upto Plinth	4	0.20	0.30	1.80	0.43			
		Plinth / Ground Beam	4	2.40	0.20	0.30	0.58			
							<b>3.71</b>	(A)		
		Above Plinth								
		Column up to Slab	4	0.20	0.30	3.20	0.77			
		Lintel Beam	4	2.40	0.20	0.15	0.29			
		Slab Beam								
			4	2.40	0.20	0.30	0.58			
		Slab	1	2.80	2.80	0.10	0.78			
		Chhajja	1	1.60	0.60	0.10	0.10			
			1	2.10	0.60	0.10	0.13			
		Window Sill								
		W	1	1.50	0.20	0.05	0.02			
						(B)	2.65			
						(A+B)	<b>6.37</b>	<b>Cum</b>	4163.00	26497.50
5	3.4	Extra for laying PCC/RCC of any grade in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth:								
		Above Plinth	1	2.58			2.65	Cum	97.50	258.67
6	2.1	Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:								
A	2.1.1	Foundations, footings, bases of columns plinth beam, curtain wall in any shape and size and all type of wall below plinth level.								
		Footing	4	5.20		0.40	8.32			
		Column upto Plinth	4	1.00		1.80	7.20			
		Plinth / Ground Beam	4	2.40		0.60	5.76			
							<b>21.28</b>	<b>Sqm</b>	139.00	2957.92
B	2.1.5	Columns, Pillars, Piers and likes- rectangular or square in shape								
		Column up to Slab	4	1.00		3.20	12.80	Sqm	297.00	3801.60
C	2.1.8	Beams, lintels, cantilevers & walls								

S. No.	SOP No.	Particular	Measurement				Qty	Unit	Rate	Amount
			No.	L	B	D/H				
		Lintel Beam	4	2.40		0.50	4.80			
		Slab Beam	4	2.40		0.80	7.68			
		Window Sill								
		W	1	1.50		0.10	0.15			
							<b>12.63</b>	<b>Sqm</b>	202.00	2551.26
D	2.1.7	Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)								
		Slab	1	2.80	2.80		7.84	Sqm	235.00	1842.40
E	2.1.13	Weather shade, chhajja, Cornices and mouldings								
		Chhajja	1	1.60	0.70		1.12			
			1	2.10	0.70		1.47			
							<b>2.59</b>	<b>Sqm</b>	294.00	761.46
7	3.12	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire in foundation and plinth all complete:								
	3.12.2	Thermo-Mechanically treated bars FE 500D								
					6.37		509.20	Kg	54.50	27751.40
8	1.18	Providing and filling in plinth with sand/ Crusher dust and hard moorum under floor in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering, including dressing etc. complete.								
		Below Floor	1	2.40	2.40	0.50	2.88	Cum	371.00	1068.48
9	1.17	Filling from available excavated stuff (Excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering with a lead upto 50 M. and lift upto 1.5 M.								
		(Total Excavated Earth)					16.78			
		Deduct : PCC Work					-2.12			
		RCC Work upto Plinth Beam					-3.71			
							<b>10.95</b>	<b>Cum</b>	65.00	711.49
10	3.13	Providing and laying damp proof course (upto 50mm thick) with plain cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded crushed stone aggregate 20mm nominal size) including form work.								
			1	8.80	0.20	0.05	0.09	Cum	4237.00	372.86
11	3.16	Making 50mm thick plinth protection of plain cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded crushed stone aggregate 20mm nominal size) over 75mm bed of dry brick ballast 40mm nominal size well rammed and consolidated and grouted with sand including finishing the top smooth.								
			1	5.76	1.00		5.76	Sqm	273.00	1572.48
12	7.5	Brick work with modular fly-ash lime bricks (FaLG Bricks) confirming to IS:12894-2002 of class designation 4.0 in foundation and plinth in:								
	7.5.4	Cement Mortar 1:6 (1 cement : 6 coarse sand)								
		Below Plinth	4	2.40	0.20	0.40	0.77			
		STEP	1	2.00	0.30	0.15	0.09			
		STEP	1	2.00	0.30	0.30	0.18			
		STEP	1	2.00	0.30	0.45	0.27			
		STEP	1	2.00	0.30	0.60	0.36			
		STEP	1	2.00	0.30	0.90	0.54			
							<b>2.21</b>	<b>Cum</b>	3263.00	7204.70
13	7.5	Brick work with modular fly-ash lime bricks (FaLG Bricks) confirming to IS:12894-2002 of class designation 4.0 in foundation and plinth in:								

S. No.	SOR No.	Particular	Measurement				Qty	Unit	Rate	Amount
			No.	L	B	D/H				
	7.5.4	Cement Mortar 1:6 (1 cement : 6 coarse sand)								
		Room	2	2.40	0.20	2.70	2.59			
			2	2.40	0.20	2.70	2.59			
		Above Slab	1	9.60	0.20	0.30	0.58			
		Deduction :- Opening	1	1.00	0.20	2.10	-0.42			
		Window	1	1.50	0.20	1.50	-0.45			
							<b>4.89</b>	<b>Cum</b>	3263.00	15956.07
14	7.6	Extra for brick work in superstructure above plinth level for every floor or part thereof in addition to rate for foundation and plinth:								
							4.89	Cum	121.00	591.69
15	9.16	Providing and fixing M.S. frames of doors, windows, ventilators and cupboards joints mitred and welded with 15x3 mm lugs 10cm long embedded in cement concrete blocks 15x10x10cm of grade M-10 or with wooden plugs and screws or with dash fastener or rawl plugs and screws or with fixing clips or with bolts and nuts as required including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer.								
	9.16.2	Angle-iron frames			kg/m					
		Door	1	5.20	2.60		13.52	Kg	73.50	994.00
16	8.13	Providing and fixing flush door shutters, conforming to IS 2202 (Part 1), interior grade, commercial type, core of block board construction with frame of first class hard wood and well matched commercial ply veneering with vertical grains, cross bands and face veneers on both faces of shutters excluding hinges.								
	8.13.1	40 mm. thick (single leaf)	1	1.00		2.10	2.10	Sqm	1601.00	3362.10
17	9.15	Providing and fixing M.S. grill of approved pattern made of M.S. flats or square or round bars welded to steel frame of windows etc. including applying a priming coat welded to frame with all necessary fitting complete including applying a priming of red oxide zinc chromate primer.								
		Window	1	1.50		1.50	2.25	Sqm		
							<b>56.25</b>	<b>Kg</b>	67.50	3796.88
18	9.47	Providing and fixing aluminium work for doors, windows, ventilators and partitions made out of extruded aluminium standard sections (main section with minimum 1.5mm thickness) conforming to IS: 733, IS: 1285 mitred and jointed mechanically including aluminium cleats, neoprene weather stripping gasket beveled edge beading, screws duly fixed in wall/floor with fixing clips or hold fasteners or bolts and nuts as required aluminium sections shall be anodized transparent or dyed to approved shade according to IS: 1868, minimum anodic coating shall be of grade AC-15. (Glazing to be paid for separately:								
	9.47.1	For fixed portion								
		Window	1	1.50	3.50	1.50	7.88			
							<b>82.00</b>	<b>Kg</b>	331.00	27140.35
19	9.47.2	For shutter of doors, windows & ventilators including providing and making provision for fixing of fitting wherever required including the cost of PVC/neoprene gasket required (Fittings shall be paid for separately).								
		Window	1	1.50	3.50	1.50	7.88	Kg	338.00	2661.75
20	9.48	Extra for powder coated (minimum 50 micron) aluminium sections instead of anodized.								

S. No.	SQR No.	Particular	Measurement				Qty	Unit	Rate	Amount
			No.	L	B	D/H				
							89.87	Kg	27.00	2426.49
21	9.51	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/ neoprene gasket etc. complete. (Cost of aluminium snap beading shall be paid in basic item):								
	9.51.1	With float glass panes of 4 mm thickness	1	1.50		1.50	2.25	Sqm	611.00	1374.75
22	8.4	Providing and fixing Dash fastener (for fixing door/ window frames) on C.C. / R.C.C./ Brick masonry surface backing including drilling necessary holes and the cost of bolt etc complete.								
	8.4.3	Dash fastener 12x100mm	1		6.00		6.00	Each	39.00	234.00
23	8.6	Providing and fixing bright finished brass sliding door bolt with nuts and brass polished MS screws complete:								
	8.60.1	300x16mm	1				1.00	Each	475.00	475.00
24	8.61	Providing and fixing brass door latch with brass polished MS screws complete:								
	8.61.2	250x16x5 mm	1				1.00	Each	268.00	268.00
25	8.62	Providing and fixing bright finished brass tower bolts (barrel type) with brass polished MS screws complete:								
	8.62.1	250x10mm	1				1.00	Each	276.00	276.00
26	8.65	Providing and fixing bright finished brass door handles with brass polished MS screws complete:								
	8.65.1	125 mm	1				1.00	Each	55.50	55.50
27	8.58	Providing and fixing bright finished brass butt hinges with brass polished MS screws complete:								
	8.58.1	125x85x5.50 mm (Heavy Type)	4				4.00	Each	245.00	980.00
28	11.41	Providing and fixing chicken mesh weighting not less than 250 gms/sqm as per IS : specification in the required width with 40mm long steel nails on vertical and horizontal surface near R.C.C. and brick walls junctions including scaffolding and all lead and lifts etc. complete before plastering upto 10mts in height.								
		Beam	4	2.40	0.30		2.88			
		Column	4	2.00		3.00	24.00			
							<b>26.88</b>	<b>Sqm</b>	86.00	2311.68
29	12.3	Cement concrete flooring with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm) finished with a floating coat of neat cement.								
	12.3.1	40 mm thick								
		Room	1	2.40	2.40		5.76	Sqm	222.00	1278.72
30	11.1	Providing and making 6mm thick cement plaster of mix:								
	11.1.2	In Cement mortar 1:4 (1 cement : 4 fine sand)								
		Room	1	2.40	2.40		5.76			
		Chhajja	1	1.60	0.60		0.96			
			1	2.10	0.60		1.26			
							<b>7.98</b>	<b>Sqm</b>	87.00	694.26
31	11.2	Providing and making 12mm thick cement plaster of mix:								
	11.2.3	In Cement Mortar 1:5 (1 cement : 5 fine sand)								
		Room	4	2.40		3.00	28.80			
		Above Slab Wall	1	9.60		0.30	2.88			
						<b>(A)</b>	<b>31.68</b>			
		Deduct : 50% Opening Area								
		Door	1	1.00	0.50	2.10	1.05			
		Window	1	1.50	0.50	1.50	1.13			
						<b>(B)</b>	<b>2.18</b>			
						<b>(A-B)</b>	<b>29.51</b>			
		Total 12mm Plaster					<b>29.51</b>	<b>Sqm</b>	96.50	2847.23

S. No.	SOR No.	Particular	Measurement				Qty	Unit	Rate	Amount
			No.	L	B	D/H				
32	11.3	Providing and making 15mm thick cement plaster on the rough side of single or half brick wall of mix:								
	11.3.3	In Cement Mortar 1:5 (1 cement : 5 fine sand)								
		Outer wall (Including Plinth)								
		Room	4	2.40		3.45	33.12			
		Above Slab Wall	1	9.60		0.30	2.88			
						(A)	36.00			
		Deduct : 50% Opening Area								
		Door	1	1.00	0.50	2.10	1.05			
		Window	1	1.50	0.50	1.50	1.13			
						(B)	2.18			
						(A-B)	33.83			
		Total 15mm Plaster					33.83	Sqm	113.00	3822.23
33	14.13	Providing and applying 2mm thick ready mix exterior grade approved make putty (like Birla wall care, Alltek Superfine W/R of (NCL), Asian, ICI, Nerolac, J.K. wall putty) on walls to make the surface smooth and even.								
		As per 6mm Plaster					7.98			
		As per 12mm Plaster					29.51			
		As per 15mm Plaster					33.83			
							71.31	Sqm	94.50	6738.80
34	14.15	Painting exterior surface with ACRYLIC SMOOTH exterior paint of required shade as per manufacturer's specifications to give protective and decorative finish including cleaning washing of surface etc. complete with:								
	14.15.1	On new work (Two or more coats applied @ 1.43 ltr/ 10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm)								
		OUTER & INNER					71.31	Sqm	56.00	3993.36
35	14.22	Painting on new work (two or more coats) to give an even shade with:								
	14.22.2	Premium synthetic enamel paint								
		Windows Grill	1	1.50	1.35	1.50	3.04	Sqm	47.00	142.76
36	10.41	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10mm and down grade) including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design :								
		Chhajja	1	2.80			2.80			
			1	3.30			3.30			
		Parapet Wall	1	9.60			9.60			
					Total		15.70	Mtr	68.00	1067.60
Total Rs. :-										170306.99
1 No. Pump House :-										170307.00
To Say (In Lakh) :-										1.70

<b>PROJECT ESTIMATE FOR THE CONSTRUCTION OF GAD COLONY OFFICE UNDER REDEVELOPMENT YOJANA AT KAILASH NAGAR RAJNANDGAON (C.G.)</b>										
SEPTIC TANK GAD										
S. No.	SOR No.	Particular	Measurement				Qty	Unit	Rate	Amount
			No.	L	B	D/H				
1	1.1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits.								
	1.1.1	In all types of soils	1	15.00	10.00	2.00	300.00	Cum	185.00	55,500.00
2	3.1	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form								
	3.1.3	1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).	1	14.40	9.40	0.10	13.54	Cum	2,970.00	40,201.92
3	3.2	Providing and laying nominal mix reinforced cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form								
	3.2.1	1:1 ½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).								
		Base Slab	1	14.20	9.20	0.20	26.13			
		Wall	2	14.20	0.20	2.00	11.36			
			2	9.40	0.20	2.00	7.52			
		Top Slab	1	14.20	9.20	0.15	19.60			
						<b>Total</b>	<b>64.60</b>	<b>Cum</b>	4,163.00	2,68,946.45
4	2.1	Providing and fixing formwork including centering, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:								
A	2.1.7	Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)								
			1	14.20	9.20		130.64			
			1	14.20	9.20		130.64			
						<b>Total</b>	<b>261.28</b>	<b>Sqm</b>	235.00	61,400.80
B	2.1.2	Wall of any thickness including attached pilasters, buttresses etc. in superstructure.								
			4	14.20		2.00	113.60			
			4	9.40		2.00	75.20			
						<b>Total</b>	<b>188.80</b>	<b>Sqm</b>	228.00	43,046.40
5	3.12	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire in foundation and plinth all complete:								
	3.12.2	Thermo-Mechanically treated bars FE 500D	64.60	at	125.00	kg/cum	8075.50	Kg	54.50	4,40,114.75
6	1.17	Filling from available excavated stuff (Excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering with a lead upto 50 M. and lift upto 1.5 M.								
		Excavated Soil at sides					300.00	Cum	65.00	19,500.00
7	11.1	Providing and making 6mm thick cement plaster of mix:								
	11.1.2	In Cement mortar 1:4 (1 cement : 4 fine sand)	2	14.20		2.00	56.80			
			2	9.20		2.00	36.80			
						<b>Total</b>	<b>93.60</b>	<b>Sqm</b>	87.00	8,143.20
8	11.5	Neat Cement punning.					93.60	Sqm	33.00	3,088.80
9	20.31	Providing and constructing soak pit 1.20x1.20x1.20m filled with brickbats including S.W. drain pipe 100 mm diameter and 1.20 m long complete as per standard design.								
							5.00	Each	1,709.00	8,545.00

S. No.	SOR No.	Particular	Measurement				Qts	Unit	Rate	Amount
			No.	L	B	D/H				
Total Rs. :-										9,48,487.32
To Say :-										9,48,487.00
To Say (In Lakh) :-										9.48

PROJECT ESTIMATE FOR THE CONSTRUCTION OF GAD COLONY OFFICE UNDER REDEVELOPMENT YOJANA AT KAILASH NAGAR RAJNANDGAON (C.G.)										
SEWER PIPELINE GAD										
S. No.	SOR No.	Particular	Measurement				Qty	Unit	Rate	Amount
			No.	L	B	D/H				
1	1.1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits.								
	1.1.1	In all types of soils.								
		For 150 mm dia	1	650	0.75	0.80	390.00			
		For 200 mm dia	1	700	0.80	1.00	560.00			
							950.00	Cum	185.00	175750.00
2	20.6	Providing, lowering, laying, aligning, fixing in position at and jointing at all level/ depths ISI marked HDPE pipes of PE-100 grade and PN 6 for sewer application as per IS 14333-1996 (amended upto date) in trenches in complete including all material, labour, testing and commissioning as per direction of Engineer. Note : E/w to be measured and paid separately.								
	20.6.2	150 mm dia	1	650			650.00	Mtr	771.00	501150.00
	20.6.3	200 mm dia	1	700			700.00	Mtr	1165.00	815500.00
3	3.1	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form work.								
	3.1.1	1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40mm nominal size).								
		Bed for Pipe								
		For 150 mm dia	1	650	0.50	0.10	32.50			
		For 200 mm dia	1	700	0.60	0.10	42.00			
							74.50	Cum	2409.00	179471.00
3	20.28	Providing and constructing brick masonry chamber for underground pipe and and bends with well burnt modular clay bricks crushing strength not less than 35kg/cm2 in cement mortar 1:4 (1 cement : 4 coarse sand) C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) R.C.C. top slab with 1:2:4 mix (1 cement :2 coarse sand : 4 graded stone aggregate 20 mm nominal size) foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete as per standard design :								
	20.28.1	Inside dimensions 455x610 mm and 45 cm deep for single pipe line :	1	30			30.00	Each	3796.00	113880.00
	20.28.2	Inside dimensions 500x700 mm and 45 cm deep for pipe line with one or two inlets :	1	35			35.00	Each	4357.00	152495.00
	20.28.3	Inside dimensions 600x 850 mm and 45 cm deep for pipe line with three or more inlets :	1	40			40.00	Each	4894.00	195760.00

S. No.	SOR No.	Particular	Measurement				Qty	Unit	Rate	Amount
			No.	L	B	D/H				
4	NON-SOR	Design. Suppy, Installation, testing & commissioning of Aerobic type buried domestic sewage treatment plant (plant room shall be above ground), with collection tanks, treated waste water tanks, process treatment tanks, electro mechanical equipments including pumps, piping, blowers, valves for primary, secondary & tertairy treatmentwith required electrification. The scope shall also include bypass connection & tretaed waste water tank connection to nearest drain. Treated waste water parameters shall meet GPCB norms for disposal								
		(a)	Capacity : 37 mtr3/day(WRD, TYPE-G(S+6),H(S+6),E Type Buglow)	1				No.	1500000.00	1500000.00
Total Rs. :-										3634006.00
To Say (In Lakh) :-										36.34

DETAILED ESTIMATE FOR THE CONSTRUCTIONS OF GAD COLONY /OFFICE UNDER REDEVELOPMENT YOJANA AT KAILASH NAGAR RAJNANDGAON (C.G.										
SUMP WELL GAD										
S. No.	SOR No.	Particular	Measurement				Qty	Unit	Rate	Amount
			No.	L	B	D/H				
		Sump Well Size		15	9	2				
1	1.2	Surface dressing of the ground including removing vegetation and making up undulations and in-equalities not exceeding 15 cms in depth/ height including disposal of rubbish upto 1.5 m lift and lead upto 50m (at least 5m away from the dressed area).								
			1	17.00	11.00		187.00			
							187.00	Sqm	7.20	1346.40
2	1.1	Excavation for all types and sizes of foundations, trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of								
	1.1.1	In all types of soil								
			1	15.90	9.90	2.30	362.04			
							362.04	Cum	185.00	66977.96
3	1.6.1	Extra for every additional lift of 1.5 m or part there of								
			1	15.90	9.90	0.80	125.93			
							125.93	Cum	26.50	3337.09
10	1.18	Providing and filling in plinth with sand/ Crusher dust and hard moorum under floor in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering, including dressing etc. complete.								
			1	15.90	9.90	0.15	23.61			
							23.61	Cum	371.00	8759.87
4	3.1	Providing and laying nominal mix plain cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of form								
	3.1.2	1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size).								
			1	15.60	9.60	0.15	22.46			
							22.46	Cum	2659.00	59731.78
11	3.2	Providing and laying nominal mix reinforced cement concrete with crushed stone aggregate using concrete mixer in all works upto plinth level excluding cost of								
	3.2.1	1:1½:3 (1 cement : 1½ coarse sand : 3 graded stone aggregate 20mm nominal size).								
		Raft	1	15.40	9.40	0.15	21.71			
		Wall	2	15.40	0.20	2.00	12.32			
			2	9.40	0.20	2.00	7.52			
		Slab	1	15.40	9.40	0.15	21.71			
							63.27	Cum	4163.00	263384.68
12	3.12	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire in foundation and plinth all complete:								
	3.12.1	Thermo-Mechanically treated bars FE 415	@140 Kg/Cum			63.27	8857.52	Kg	54.50	482734.84
5	2.1	Providing and fixing form work including centring, shuttering, strutting, staging, propping bracing etc. complete and including its removal at all levels, for:								

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S. No.	SOR No.	Particular	Measurement				Qty	Unit	Rate	Amount
			No.	L	B	D/H				
	2.1.1	Foundations, footings, bases of columns plinth beam, curtain wall in any shape and size and all type of wall below plinth level.								
		Raft (periphery)	1	49.60		0.15	7.44			
							<b>7.44</b>	<b>Sqm</b>	139.00	1034.16
6	2.1.7	Suspended floors, roofs, access platform, balconies (plain surfaces) and shelves (cast in situ)								
		Slab	1	15.40	9.40		144.76			
							<b>144.76</b>	<b>Sqm</b>	235.00	34018.60
7	2.1.8	Beams, lintels, cantilevers & walls								
		Wall	4	15.40		2.00	123.20			
			4	9.40		2.00	75.20			
							<b>198.40</b>	<b>Sqm</b>	202.00	40076.80
9	1.17	Filling from available excavated stuff (Excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering with a lead upto 50 M. and lift upto 1.5 M.								
		Back filling (outer peripheral)	4	15.40	0.50	2.30	70.84			
							<b>70.84</b>	<b>Cum</b>	65.00	4604.60
	1.26	Carriage by mechanical transport upto 5 km lead:								
	1.26.1	Earth								
		Total Excavation					487.97			
		Deduction back filling					-70.84			
							<b>417.13</b>	<b>Cum</b>	111.00	46301.54
29	11.2.3	Providing and making 12mm thick cement plaster of mix:								
		In Cement Mortar 1:5 (1 cement : 5 fine sand)								
		Wall	2	15.40		2.00	61.60			
			2	9.40		2.00	37.60			
		Slab	1	15.40	9.40		144.76			
							<b>243.96</b>	<b>Sqm</b>	96.50	23542.14
48	11.41	Providing and fixing chicken mesh weighting not less than 250 gms/ sqm as per IS : specification in the required width with 40mm long steel nails on vertical and horizontal surface near R.C.C. and brick walls junctions including scaffolding and all lead and lifts etc. complete before plastering upto 10mts in height.								
		Wall					198.40			
							<b>198.40</b>	<b>Sqm</b>	86.00	17062.40
13	4.5	Providing and laying water proofing treatment in sunken portion of WCs, bathroom, kitchen etc., by applying cement slurry mixed with water proofing cement compound consisting of following applications including surface preparation:								
		i) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm. This layer will be allowed to air cure for 4 hours.								
		ii) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound @ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours. The rate includes treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry.								
		Total area	1	15.40	9.40		144.76			

## PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S. No.	SOR No.	Particular	Measurement				Qty	Unit	Rate	Amount
			No.	L	B	D/H				
							144.76	Sqm	182.00	26346.32
	23.2	Supplying, installation, testing and commissioning of centrifugal type mono-block electric pump set for water supply system having following capacity three phase, 415 volts AC induction motor and pump including suitable channel iron base frame, suitable C.C. foundation and connection of suction and delivery line etc. as per specification.								
	23.2.2	5 HP, 750 LPM, 20 m head, suction size 80 mm, delivery size 65 mm								
							6.00	Each	16050.00	96300.00
<b>Total Rs. :-</b>									<b>1175559.17</b>	
<b>For 2 nos</b>									<b>2351118.00</b>	
<b>To Say (In Lakh) :-</b>									<b>23.51</b>	

DETAILED ESTIMATE FOR THE CONSTRUCTIONS OF GAD COLONY /OFFICE UNDER REDEVELOPMENT YOJANA AT KAILASH NAGAR RAJNANDGAON (C.G.										
RAINWATER HARVESTING										
S. No.	SOR No.	Particular	Measurement				Qty	Unit	Rate	Amount
			No.	L	B	D/H				
1	1.1	Excavation for all types and sizes of foundations trenches and drains or for any other purpose including disposal of excavated stuff upto 1.5 m lift and lead upto 50m (at least 5m away from the excavated area), including dressing and leveling of pits.								
	1.1.1	In all types of soil up to 1.50m lift								
		Pit Well	1	9.07	SQM	3.50	31.76			
							<b>31.76</b>	<b>Cum</b>	185.00	5,875.80
2	1.6	Extra for every additional lift of 1.5 m or part thereof.								
	1.6.1	All types of soils								
		Pit Well								
		2nd Lift	1	9.07	SQM	2.00	18.15	Cum	26.50	480.95
		3rd Lift	1	9.07	SQM	0.50	4.54	Cum	53.00	240.48
3	1.18	Providing and filling in plinth with sand/ Crusher dust and hard moorum under floor in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering including dressing etc.complete.								
		Pit Well	1	10.68	SQM	2.20	23.49			
		Coarse Sand	1	3.14	SQM	0.30	0.94			
							<b>23.49</b>	<b>Cum</b>	371.00	8,713.75
4		Coarse Sand	1	3.14						
		M-25 Grade								
		Pit Well Top Cover	1		SQM	0.15	0.15			
							<b>0.15</b>	<b>Cum</b>	4,298.00	644.70
5	3.9	Extra for precast PCC/ RCC work of any mix including form work, hoisting and fixing in Cement Mortar. 1:2 (1 Cement : 2 coarse sand) and finishing with cement plaster in Cement Mortar 1:3 (1 Cement : 3 coarse sand) but excluding reinforcement.								
		Pit Well Top Cover	1			0.15	0.15	Cum		
							<b>0.15</b>	<b>Cum</b>	469.00	70.35
6	3.12	Providing and placing in position reinforcement for R.C.C. work including straightening, cutting, bending, binding etc. complete as per drawings including cost of binding wire in foundation and plinth all complete:								
	3.12.1	Thermo-Mechanically treated bars FE 415		cum	kg/cum					
		Pit Well Top Cover		0.15	80.00		12.00			
							12.00	Kg	54.50	654.00
7	7.5	Brick work with modular fly-ash lime bricks (FaLG Bricks) confirming to IS:12894-2002 of class designation 4.0 in foundation and plinth in:								
	7.5.3	Cement Mortar 1:5 (1 cement : 5 coarse sand)								
		Bottom Wall	1	7.54	0.60	0.30	1.36			
		2nd Layer	4	7.54	0.40	1.90	22.91			
		3rd Layer	4	6.91	0.20	2.35	12.99			
							<b>37.25</b>	<b>Cum</b>	3,350.00	1,24,797.42

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S. No.	SOR No.	Particular	Measurement				Qty	Unit	Rate	Amount
			No.	L	B	D/H				
8	21.1	Boring/drilling bore well perfectly vertical for the specified depth suitable to receive required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer-in-charge up to 90 meter depth below ground level.								
	21.1.1	All types of soil								
	21.1.1.4	200 mm dia					3.50	Mtr	371.00	1,298.50
9	21.5	Supplying, assembling, lowering and lining in vertical position in bore well, ISI marked G.I. casing pipe (Plain) medium class in 4 to 7 meters length one end fitted with socket as per IS: 1239 (Part-1&Part-2) 1992 with IVth revision (Up-to-date amendments), of reputed & approved make, including required hire & labor charges, fittings & accessories, all complete, for all depths, as per direction of engineer- in- charges.								
	21.5.3	150 mm nominal dia					15.00	Mtr	1,304.00	19,560.00
10	21.14	Supplying, filling, spreading & leveling stone boulders/ Gravels/ Coarse sand, in recharge pit, in the required layers and thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge. (excavation of pit will be paid separately).								
	21.14.1	Stone boulders of size range 5 cm to 20 cm, in recharge pit					0.94	Cum	863.00	812.95
	21.14.2	Gravels of size range 5 mm to 10 mm, over the existing layer of boulders					0.94	Cum	806.00	759.25
	21.14.3	Coarse sand of size range 1.5 mm to 2 mm over existing layer of gravel					0.94	Cum	471.00	443.68
							<b>Total Rs. :-</b>			<b>1,64,351.83</b>
							<b>RWH Total 2 Nos (B) Rs. :-</b>			<b>3,28,703.66</b>
							<b>Or Say (In Lakh) :-</b>			<b>3.29</b>

## LOAD DETAIL FOR REDEVELOPMENT WORK AT KAILASH NAGAR NH-53, DISTT.-RAJNANDGAON (C.G.)

S.No.	Particulars	Plot Area	Builtup Area	Proposed Load	Qty.	Total Load
		(In Sqft.)	(In Sqft.)	(In KW)	(In Nos.)	(In KW)
01	E TYPE DUPLEX BUNGALOW	-	2646.96	11	02	22.00
02	G TYPE QTR. (S+6)	-	836.00	04	24	96.00
03	H TYPE QTR. (S+6)	-	490.76	02	24	48.00
04	WRD OFFICE (S+3)	-	11769.28	59	01	59.00
05	STP	-	-	20	01	20.00
06	WATER WORKS	-	-	20	01	20.00
07	COMMON SERVICE (STREET LIGHT, LIFT & FIRE FIGHTING)	-	-	35	01	35.00
	<b>Total Load (In KW)</b>					<b>300.00</b>
	<b>Total Load (In KVA)</b>					<b>375.00</b>

**ABSTRACT FOR WRD OFFICE COLONY**

<b>S.No.</b>	<b>PARTICULARS OF NAME</b>	<b>AMOUNT</b>
<b>(A)</b>	<b>INTERNAL ELECTRIFICATION PART</b>	
01	WRD OFFICE (S+3) INTERNAL E/F WORK	14,30,023.00
02	WRD OFFICE (S+3) E/F FIXTURES WORK	34,18,199.00
03	E TYPE DUPLEX BUNGALOW INTERNAL E/F WORK WITH FIXTURES	4,49,770.00
04	G TYPE QUARTER (S+6) INTERNAL E/F WORK WITH FIXTURES	33,15,744.00
05	H TYPE QUARTER (S+6) INTERNAL E/F WORK WITH FIXTURES	25,37,332.00
06	LIFT FOR 01 Nos. G TYPE (S+6) & H TYPE (S+6) WORK	63,24,546.00
07	WRD OFFICE LIFT WORK	20,51,367.00
08	CCTV WRD OFFICE (S+3)	8,25,780.00
	<b>TOTAL (A)</b>	<b>2,03,52,761.00</b>
<b>(B)</b>	<b>EXTERNAL ELECTRIFICATION PART</b>	
01	WRD OFFICE LIGHTING ARRESTER WORK	2,42,800.00
02	DG SET FOR COMMON SERVICE 01 Nos. G TYPE (S+6) & H TYPE (S+6) WORK	13,67,559.00
03	WRD OFFICE DG SET WORK	13,67,559.00
04	WRD OFFICE COLONY EXTERNAL E/F WORK	1,65,14,824.26
05	SOLAR SYSTEM (Lum Sum)	20,00,000.00
	<b>TOTAL (B)</b>	<b>2,14,92,742.26</b>
	<b>TOTAL (A+B) (Rs.)</b>	<b>4,18,45,503.26</b>
	<b>SAY (Rs.)</b>	<b>418.46 Lacs</b>

**ESTIMATE OF INTERNAL ELECTRIFICATION WORK FOR PROPOSED  
REDEVELOPMENT WORK OF WRD OFFICE (S+3) AT KAILASH NAGAR NH-53,  
DISTT.- RAJNANDGAON (C.G.)**

S.No.	SOR Item No.	PARTICULARS	UNIT	Qty			Total Qty	RATE (in Rs.)	AMOUNT (in Rs.)
				Each Unit	06 Unit	Common Service			
A	B	C	D	E	F	G	H (F+G)	I	J (H x I)
01	1.7	Wiring for <b>light/fan/exhaust fan/call bell point</b> with <b>3x1.5 sqmm</b> FRLS PVC insulated stranded copper conductor single core wire for phase, neutral and earth in concealed FRLS PVC conduit, with 5/6 amp modular switch, modular base and cover plate, suitable size G.I. box as per specification.							
	1.7.1	Short Point	Point	13	78	02	80	266.00	21280.00
	1.7.2	Medium Point	Point	34	204	09	213	424.00	90312.00
	1.7.3	Long Point	Point	40	240	25	265	588.00	155820.00
02	1.8	Wiring for <b>twin control light point</b> with <b>3x1.5 sqmm</b> FRLS PVC insulated stranded copper conductor wire for phase, neutral and earth in concealed FRLS PVC conduit (heavy duty, thickness of pipe should be 2 mm) with 5/6 amp modular switch, modular base and cover plate, suitable size G.I. box as per specification and IS: 694 (2010), IS: 9537 (2000 Part 5)	Point	00	00	08	08	420.00	3360.00
03	1.9	<b>Extra</b> for providing and fixing light plug point on board in concealed FRLS PVC conduit point wiring with modular type 3 pin 5/6 amp socket outlet and 5/6 amp switch including cost of base and cover plate and G.I. box etc. as per specification.	Point	35	210	04	214	216.00	46224.00
04	1.10	Wiring for <b>light plug point</b> with <b>3x2.5 sqmm</b> FRLS PVC insulated stranded copper conductor wire for phase, neutral and earth in concealed FRLS PVC conduit along with modular type 6 Amp switch and 3 pin 6 amps socket outlet with modular base and cover plate, suitable size G.I. box, earthing the switch box and socket outlet with same size wire etc. as per specification.							
	1.10.1	Short Point	Point	09	54	00	54	442.00	23868.00
	1.10.2	Medium Point	Point	11	66	00	66	659.00	43494.00
	1.10.3	Long Point	Point	05	30	00	30	922.00	27660.00
05	1.11	Wiring for <b>power plug point</b> with <b>3x4 sqmm</b> FRLS PVC insulated stranded copper conductor wire for phase, neutral and earth in concealed FRLS PVC conduit, along with modular type 16 Amp switch and 6 pin 16 amps socket outlet with modular base and cover plate, suitable size G.I. box, earthing the switch box and socket outlet with same size wire etc. as per specification.							
	1.11.3	Long Point	Point	01	06	00	06	1350.00	8100.00
	1.11.4	Extra Long Point I	Point	01	06	00	06	1807.00	10842.00
	1.11.5	Extra Long Point II	Point	07	42	00	42	2315.00	97230.00
	1.11.6	Extra Long Point III	Point	05	30	00	30	2825.00	84750.00

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S.No.	SOR Item No.	PARTICULARS	UNIT	Qty			Total Qty	RATE (in Rs.)	AMOUNT (in Rs.)
				Each Unit	06 Unit	Common Service			
A	B	C	D	E	F	G	H (F+G)	I	J (H x I)
06	1.13	Wiring for <b>circuit/ sub main</b> wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, wire in concealed FRLS PVC conduit (heavy duty, thickness of pipe should be 2 mm) as per specification and IS: 694 (2010), IS: 9537 (2000 Part 5)							
	1.13.2	3 X 2.5 sq. mm in 20 mm conduit	Mtr	150.00	900.00	90.00	990.00	111.00	109890.00
	1.13.3	6 X 2.5 sq. mm in 25 mm conduit	Mtr	80.00	480.00	00.00	480.00	172.00	82560.00
	1.13.4	9 X 2.5 sq. mm in 32 mm conduit	Mtr	40.00	240.00	00.00	240.00	238.00	57120.00
	1.13.6	3 X 4 sq. mm in 25 mm conduit	Mtr	35.00	210.00	00.00	210.00	145.00	30450.00
	1.13.14	6 X 10 sq. mm in 32 mm conduit	Mtr	55.00	330.00	00.00	330.00	515.00	169950.00
07	1.15	Supplying and fixing of following sizes FRLS PVC conduit (heavy duty, thickness of pipe should be 2 mm) along with accessories in concealed complete as per specification and IS: 9537 (2000 Part 5)							
	1.15.2	25 mm	Mtr	300.00	1800.00	70.00	1870.00	53.00	99110.00
08	3.11	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, multi strand wire in the existing surface/ concealed, FRLS PVC conduit/ PVC casing capping as per specification.							
	3.11.3	3 x 1.5 sq. mm	Mtr	70.00	420.00	00.00	420.00	37.00	15540.00
	3.11.11	1 x 2.5 sq. mm	Mtr	150.00	900.00	00.00	900.00	22.00	19800.00
09	3.12	Supplying and drawing following pair 0.5 mm FRLS PVC insulated copper conductor, unarmored <b>telephone wire</b> in the existing surface/ concealed Steel/PVC conduit as per specification.							
	3.12.2	2 Pair	Mtr	300.00	1800.00	00.00	1800.00	11.00	19800.00
10	3.13	Supplying and drawing following grade co-axial <b>TV wire</b> FRLS PVC insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface/ concealed Steel/PVC conduit as per specification and IS: 694 (2010)							
	3.13.1	RG-6 grade	Mtr	80.00	480.00	00.00	480.00	14.00	6720.00
11	3.14	Supplying and drawing <b>UTP 4 pair Cat 6 LAN wire</b> in existing surface/ concealed Steel/FRLS PVC conduit as per specification.	Mtr	300.00	1800.00	0.00	1800.00	19.00	34200.00
12	5.4	Supplying and fixing following modular switch, socket, other accessories on the existing modular plate & switch box including connections but excluding modular plate etc. as per specification.							
	5.4.3	Bell push	Each	05	30	00	30	80.00	2400.00
	5.4.9	Fan regulator (Two module size) electronic stepped type moving all rounds	Each	11	66	00	66	223.00	14718.00
	5.4.15	Telephone socket outlet	Each	11	66	00	66	70.00	4620.00
	5.4.16	T.V. antenna socket outlet	Each	02	12	00	12	74.00	888.00
	5.4.17	Computer Outlet Jack	Each	11	66	00	66	242.00	15972.00
	5.4.18	25/32 amp A.C. Starter switch	Each	06	36	00	36	246.00	8856.00
	5.4.22	Batten/ angle holder	Each	02	12	00	12	41.00	492.00
	5.4.23	Blanking plate	Each	60	360	00	360	28.00	10080.00

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S.No.	SOR Item No.	PARTICULARS	UNIT	Qty			Total Qty	RATE (in Rs.)	AMOUNT (in Rs.)
				Each Unit	06 Unit	Common Service			
A	B	C	D	E	F	G	H (F+G)	I	J (H x I)
13	5.6	Providing and fixing <b>composite unit</b> for <b>computer points</b> having modular type 1 No 6 pin 16 amp socket outlet, 1 No 16 amp switch, 3 Nos 3 pin 6 amp socket outlets, 3 Nos 6 amp switches, suitable G.I. box, base and cover plates, earthing the sockets and switch box including etc. as per specification.	Each	02	12	00	12	816.00	9792.00
14	5.9	Providing and fixing round/ hexagonal <b>fan box</b> (125mm dia) depth 75mm (max.) with 12mm dia steel bar hook, 1.6mm thick MS sheet cover, in RCC slab etc. as per specification.	Each	11	66	00	66	42.00	2772.00
15	6.12	Providing and fixing phenolic laminated sheet cover of 180 mm dia 3 mm thick on the <b>fan box</b> etc. as per specification. (If provided at the time of installation of ceiling fan)	Each	11	66	00	66	56.00	3696.00
16	9.3	Supplying and fixing on surface/ recess following way, 240 volts <b>SP&amp;N MCB distribution board</b> consumer unit of sheet steel phosphatized and powder painted, complete with tinned copper busbar, neutral busbar, earth bar, din bar, detachable gland plate, including interconnections, earthing etc. as per specification. (But without MCB/RCCB/Isolator)							
	9.3.1	2 + 4 way	Each	00	00	01	01	624.00	624.00
17	9.4	Supplying and fixing on surface/ recess horizontal type following way, <b>415 volts, TPN MCB distribution board</b> of sheet steel phosphatized and powder painted, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, detachable gland plate, including inter connections, earthing etc. as per specification. (But without MCB/RCCB/Isolator.							
	9.4.4	4 way Double door	Each	01	06	00	06	1716.00	10296.00
	9.4.5	6 way Double door	Each	01	06	00	06	2038.00	12228.00
18	9.11	Supplying and fixing <b>SP MCB</b> , 240 volts, 'C' curve, suitable for inductive load in the existing MCB DB complete with connections, testing and commissioning etc. as per specification.							
	9.11.2	6 amps to 32 amps	Each	30	180	04	184	148.00	27232.00
19	9.12	Supplying and fixing <b>DP MCB</b> , 240 volts, 'C' curve, suitable for lighting and other loads in the existing MCB DB complete with connections, testing and commissioning etc. as per specification.							
	9.12.2	6 amps to 32 amps	Each	00	00	01	01	411.00	411.00
20	9.16	Supplying and fixing <b>TP&amp;N MCB, 440 volts</b> , 'C'curve, suitable for lighting and other load sin the existing MCB DB complete with connections, testing and commissioning etc. as perspecification.							
	9.16.3	40 Amp	Each	01	06	00	06	1275.00	7650.00
	9.16.5	63 Amp	Each	01	06	00	06	1316.00	7896.00

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S.No.	SOR Item No.	PARTICULARS	UNIT	Qty			Total Qty	RATE ( in Rs.)	AMOUNT (in Rs.)
				Each Unit	06 Unit	Common Service			
A	B	C	D	E	F	G	H (F+G)	I	J (H x I)
21	27.47	Supplying, installation, testing and commissioing of 12U Indoor Rack - Wallmount 12U 450D With Front Glass Door Lock & Key 550 12U - (Fan, cable manager, PDU + Fan included) complete as per required.	Each	01	06	00	06	5220.00	31320.00
		<b>Total</b>							<b>Rs. 1430023.00</b>

**ESTIMATE OF ELECTRICAL FIXTURES WORK FOR PROPOSED  
REDEVELOPMENT WORK OF WRD OFFICE (S+3) AT KAILASH NAGAR, NH-53,  
DISTT.- RAJNANDGAON (C.G.)**

S.No.	SOR Item No.	PARTICULARS	UNIT	Qty			Total Qty	RATE (in Rs.)	AMOUNT (in Rs.)
				Each Unit	06 Unit	Common Service			
A	B	C	D	E	F	G	H (F+G)	I	J (H x I)
01	5.7	Supplying and fixing call bell/ buzzer suitable for single phase, 230 volts A.C. supply, complete as per specification.							
	5.7.2	Deluxe	Each	05	30	00	30	107.00	3210.00
02	6.1	Supplying, installation, testing and commissioning of following sizes <b>ceiling fan</b> including wiring the down rods of standard length up to 30 cm with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable, earthing etc. complete as required. P.F. should be greater than 0.9, with BEE Star rating from 3 star and above, IS: 374:2019 including all amendments.							
	6.1.3	1200 mm sweep	Each	11	66	00	66	1697.00	112002.00
03	6.6	Supplying, installation, testing and commissioning of following sizes heavy duty (continuous running) <b>1400 rpm exhaust fan</b> in existing opening in wall including earthing etc. complete as per specification. P.F. should be greater than 0.9							
	6.6.1	300 mm sweep	Each	01	06	00	06	2446.00	14676.00
04	6.8	Supplying, installation, testing and commissioning of following sizes <b>fancy exhaust fan</b> having built in lovers in existing opening in wall including earthing etc. complete as per specification. P.F. should be greater than							
	6.8.2	300 mm sweep	Each	06	36	00	36	1270.00	45720.00
05	6.15	Supplying, installation, testing and commissioning of following <b>LED fitting (luminaries)</b> panel light in round / square shape complete with electronic driver heat sink capacitor and all other accessories on suface/ in false ceiling etc. as per specification and P.F. should be greater than 0.9 LED chip efficacy ratio $\geq 100$ lumens /watt.							
	6.15.6	18/20 Watt	Each	30	180	00	180	868.00	156240.00
06	6.16	Supplying, installation, testing and commissioning of following sleek <b>LED</b> panel down lighters (luminaries) in round/ square shape complete with electronic driver heat sink capacitor and all other accessories on surface/ in false ceiling etc. as per specification and P.F. should be greater than 0.9 LED chip efficacy ratio $\geq 100$ lumens /watt							
	6.16.2	36 watt, size 600 x 600 mm	Each	25	150	00	150	2342.00	351300.00
07	6.19	Supplying, Installation, testing and commissioning of following <b>LED tube light fitting</b> including batten with Electronic Driver Heat sink Capecitor complete with all other accessories on surface/in false ceiling, including connection, earthing etc complete as per specification and IP20.P.F. should be greater than 0.9 LED chip efficacy ratio $\geq 100$ Lumens/watt.							
	6.19.2	10 watt {2 feet}	Each	11	66	00	66	351.00	23166.00

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S.No.	SOR Item No.	PARTICULARS	UNIT	Qty			Total Qty	RATE ( in Rs.)	AMOUNT (in Rs.)
				Each Unit	06 Unit	Common Service			
A	B	C	D	E	F	G	H (F+G)	I	J (H x I)
08	6.27	Supplying, installation, testing and commissioning of following <b>LED Bulk Head fitting</b> complete with Electronic Driver Heat sink Capacitor and all other accessories, including connection, earthing etc complete as per specification and P.F. should be greater than 0.9. LED chip efficacy ratio ≥ 100 lumens /watt. IP65							
	6.27.1	10 watt	Each	00	00	40	40	1140.00	45600.00
09	6.28	Supplying, installation, testing and commissioning of following 230/250 volts <b>LED street light fitting</b> with all accessories like driver, heat sink made of die cast aluminium with IP66 protection and 15KV surge protection on pole bracket, including connection, earthing etc complete as per specification and P.F. should be greater than 0.9. LED chip efficacy ratio ≥120 lumens/watt							
	6.28.6	45 watt	Each	00	00	01	01	2729.00	2729.00
		<b>Total (A)</b>						<b>Rs.</b>	<b>754643.00</b>
<b>AIR CONDITIONER UNIT</b>									
10	24.4	Installation of split type Inverter/Non Inverter Air Conditioner unit, cooling unit on wall inside and condensing unit on out side wall/ ceiling/ floor at desired locations with existing standard length of copper piping with insulation and power cable including providing and fixing necessary good quality powder coated MS frame etc complete as per specification. (Extra length of copper piping and power cable shall be paid extra on linear basis)	Each	07	42	00	42	2110.00	88620.00
11	24.7	Supply and fixing of approved make wall mounting type voltage stabilizer with input volts 160-250, output volts 200-240 volts and double step relay on desired location with necessary fixing material including connection etc complete as per specification.							
	24.7.1	4 KVA	Each	07	42	00	42	3832.00	160944.00
12	24.20	Supplying of approved make Hiwall split Inverter type Air Conditioner unit with cooling unit (copper coil) and condensing unit (copper coil) including 5 years compressor warranty and standard length of upto 5 metre of copper piping with insulation etc complete as per specification:							
	24.20.8	1.5 Ton split type Inverter AC {5 Star}	Each	04	24	00	24	45340.00	1088160.00
	24.20.9	2.0 Ton split type Inverter AC {5 Star}	Each	03	18	00	18	55830.00	1004940.00
13	24.23	Supplying, installation, testing and commissiiong of following size drinking water cooler storage type ISI marked, eco friendly non CFC refrigerant, water tank and cooler cabinet sheet material- stainless steel {grade AISI 304} with thickness >= 0.8 mm, with PUF insulation including all accessories connection etc complete as per specification.							
	24.23.1	40/80 Ltrs/hr	Each	01	06	00	06	29974.00	179844.00

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S.No.	SOR Item No.	PARTICULARS	UNIT	Qty			Total Qty	RATE ( in Rs.)	AMOUNT (in Rs.)
				Each Unit	06 Unit	Common Service			
A	B	C	D	E	F	G	H (F+G)	I	J (H x I)
14	24.24	Supplying, installation, testing and commissioning of following capacity of RO purification system with UF/UV/TDS controler and UV lamp {IS 14724 Ultra violet disinfection} and minimum three stage purification, automatic on/off, output water conforming standard IS 10500 with inbuild storage tank including all accessories connection etc complete as per specification.							
	24.24.1	25 Ltrs/hr output capacity	Each	01	06	00	06	23508.00	141048.00
		<b>Total (B)</b>							<b>Rs. 2663556.00</b>
		<b>Grand Total (A+B)</b>							<b>Rs. 3418199.00</b>

**ESTIMATE OF INTERNAL ELECTRIFICATION WORK FOR PROPOSED  
REDEVELOPMENT WORK OF WRD OFFICE (S+3) AT KAILASH NAGAR NH-53,  
DISTT.- RAJNANDGAON (C.G.)**

S.No.	SOR Item No.	PARTICULARS	UNIT	Qty			Total Qty	RATE (in Rs.)	AMOUNT (in Rs.)
				Each Unit	03 Unit	Common Service			
A	B	C	D	E	F	G	H (F+G)	I	J (H x I)
01	1.7	Wiring for <b>light/fan/exhaust fan/call bell point</b> with <b>3x1.5 sqmm</b> FRLS PVC insulated stranded copper conductor single core wire for phase, neutral and earth in concealed FRLS PVC conduit, with 5/6 amp modular switch, modular base and cover plate, suitable size G.I. box as per specification.							
	1.7.1	Short Point	Point	16	48	02	50	266.00	13300.00
	1.7.2	Medium Point	Point	41	123	09	132	424.00	55968.00
	1.7.3	Long Point	Point	48	144	25	169	588.00	99372.00
02	1.8	Wiring for <b>twin control light point</b> with <b>3x1.5 sqmm</b> FRLS PVC insulated stranded copper conductor wire for phase, neutral and earth in concealed FRLS PVC conduit (heavy duty, thickness of pipe should be 2 mm) with 5/6 amp modular switch, modular base and cover plate, suitable size G.I. box as per specification and IS: 694 (2010), IS: 9537 (2000 Part 5)	Point	00	00	08	08	420.00	3360.00
03	1.9	<b>Extra</b> for providing and fixing light plug point on board in concealed FRLS PVC conduit point wiring with modular type 3 pin 5/6 amp socket outlet and 5/6 amp switch including cost of base and cover plate and G.I. box etc. as per specification.	Point	35	105	04	109	216.00	23544.00
04	1.10	Wiring for <b>light plug point</b> with <b>3x2.5 sqmm</b> FRLS PVC insulated stranded copper conductor wire for phase, neutral and earth in concealed FRLS PVC conduit along with modular type 6 Amp switch and 3 pin 6 amps socket outlet with modular base and cover plate, suitable size G.I. box, earthing the switch box and socket outlet with same size wire etc. as per specification.							
	1.10.1	Short Point	Point	09	27	00	27	442.00	11934.00
	1.10.2	Medium Point	Point	11	33	00	33	659.00	21747.00
	1.10.3	Long Point	Point	05	15	00	15	922.00	13830.00
05	1.11	Wiring for <b>power plug point</b> with <b>3x4 sqmm</b> FRLS PVC insulated stranded copper conductor wire for phase, neutral and earth in concealed FRLS PVC conduit, along with modular type 16 Amp switch and 6 pin 16 amps socket outlet with modular base and cover plate, suitable size G.I. box, earthing the switch box and socket outlet with same size wire etc. as per specification.							
	1.11.3	Long Point	Point	01	03	00	03	1350.00	4050.00
	1.11.4	Extra Long Point I	Point	03	09	00	09	1807.00	16263.00
	1.11.5	Extra Long Point II	Point	07	21	00	21	2315.00	48615.00
	1.11.6	Extra Long Point III	Point	05	15	00	15	2825.00	42375.00

# PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

06	1.13	Wiring for <b>circuit/ sub main</b> wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, wire in concealed FRLS PVC conduit (heavy duty, thickness of pipe should be 2 mm) as per specification and IS: 694 (2010), IS: 9537 (2000 Part 5)							
	1.13.2	3 X 2.5 sq. mm in 20 mm conduit	Mtr	160.00	480.00	90.00	570.00	111.00	63270.00
	1.13.3	6 X 2.5 sq. mm in 25 mm conduit	Mtr	80.00	240.00	00.00	240.00	172.00	41280.00
	1.13.4	9 X 2.5 sq. mm in 32 mm conduit	Mtr	40.00	120.00	00.00	120.00	238.00	28560.00
	1.13.6	3 X 4 sq. mm in 25 mm conduit	Mtr	35.00	105.00	00.00	105.00	145.00	15225.00
	1.13.14	6 X 10 sq. mm in 32 mm conduit	Mtr	55.00	165.00	00.00	165.00	515.00	84975.00
07	1.15	Supplying and fixing of following sizes FRLS PVC conduit (heavy duty, thickness of pipe should be 2 mm) along with accessories in concealed complete as per specification and IS: 9537 (2000 Part 5)							
	1.15.2	25 mm	Mtr	300.00	900.00	70.00	970.00	53.00	51410.00
08	3.11	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, multi strand wire in the existing surface/ concealed, FRLS PVC conduit/ PVC casing capping as per specification.							
	3.11.3	3 x 1.5 sq. mm	Mtr	70.00	210.00	00.00	210.00	37.00	7770.00
	3.11.11	1 x 2.5 sq. mm	Mtr	150.00	450.00	00.00	450.00	22.00	9900.00
09	3.12	Supplying and drawing following pair 0.5 mm FRLS PVC insulated copper conductor, unarmored <b>telephone wire</b> in the existing surface/ concealed Steel/PVC conduit as per specification.							
	3.12.2	2 Pair	Mtr	300.00	900.00	00.00	900.00	11.00	9900.00
10	3.13	Supplying and drawing following grade co-axial TV wire FRLS PVC insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface/ concealed Steel/PVC conduit as per specification and IS: 694 (2010)							
	3.13.1	RG-6 grade	Mtr	80.00	240.00	00.00	240.00	14.00	3360.00
11	3.14	Supplying and drawing <b>UTP 4 pair Cat 6 LAN wire</b> in existing surface/ concealed Steel/FRLS PVC conduit as per specification.	Mtr	300.00	900.00	0.00	900.00	19.00	17100.00
12	5.4	Supplying and fixing following modular switch, socket, other accessories on the existing modular plate & switch box including connections but excluding modular plate etc. as per specification.							
	5.4.3	Bell push	Each	05	15	00	15	80.00	1200.00
	5.4.9	Fan regulator (Two module size) electronic stepped type moving all rounds	Each	16	48	00	48	223.00	10704.00
	5.4.15	Telephone socket outlet	Each	11	33	00	33	70.00	2310.00
	5.4.16	T.V. antenna socket outlet	Each	02	06	00	06	74.00	444.00
	5.4.17	Computer Outlet Jack	Each	11	33	00	33	242.00	7986.00
	5.4.18	25/32 amp A.C. Starter switch	Each	06	18	00	18	246.00	4428.00
	5.4.22	Batten/ angle holder	Each	02	06	00	06	41.00	246.00
	5.4.23	Blanking plate	Each	60	180	00	180	28.00	5040.00
13	5.6	Providing and fixing <b>composite unit</b> for <b>computer points</b> having modular type 1 No 6 pin 16 amp socket outlet, 1 No 16 amp switch, 3 Nos 3 pin 6 amp socket outlets, 3 Nos 6 amp switches, suitable G.I. box, base and cover plates, earthing the sockets and switch box including etc. as per specification.	Each	02	06	00	06	816.00	4896.00

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

14	5.9	Providing and fixing round/ hexagonal <b>fan box</b> (125mm dia) depth 75mm (max.) with 12mm dia steel bar hook, 1.6mm thick MS sheet cover, in RCC slab etc. as per specification.	Each	16	48	00	48	42.00	2016.00
15	6.12	Providing and fixing phenolic laminated sheet cover of 180 mm dia 3 mm thick on the <b>fan box</b> etc. as per specification. (If provided at the time of installation of celing fan)	Each	16	48	00	48	56.00	2688.00
16	9.3	Supplying and fixing on surface/ recess following way, 240 volts <b>SP&amp;N MCB distribution board</b> consumer unit of sheet steel phosphatized and powder painted, complete with tinned copper busbar, neutral busbar, earth bar, din bar, detachable gland plate, including interconnections, earthing etc. as per specification. (But without MCB/RCCB/Isolator)							
	9.3.1	2 + 4 way	Each	00	00	01	01	624.00	624.00
17	9.4	Supplying and fixing on surface/ recess horizontal type following way, <b>415 volts, TPN MCB distribution board</b> of sheet steel phosphatized and powder painted, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, detachable gland plate, including inter connections, earthing etc. as per specification. (But without MCB/RCCB/Isolator.							
	9.4.4	4 way Double door	Each	01	03	00	03	1716.00	5148.00
	9.4.5	6 way Double door	Each	01	03	00	03	2038.00	6114.00
18	9.11	Supplying and fixing <b>SP MCB</b> , 240 volts, 'C' curve, suitable for inductive load in the existing MCB DB complete with connections, testing and commissioning etc. as per specification.							
	9.11.2	6 amps to 32 amps	Each	30	90	04	94	148.00	13912.00
19	9.12	Supplying and fixing <b>DP MCB</b> , 240 volts, 'C' curve, suitable for lighting and other loads in the existing MCB DB complete with connections, testing and commissioning etc. as per specification.							
	9.12.2	6 amps to 32 amps	Each	00	00	01	01	411.00	411.00
20	9.16	Supplying and fixing <b>TP&amp;N MCB, 440 volts</b> , 'C'curve, suitable for lighting and other load sin the existing MCB DB complete with connections, testing and commissioning etc. as perspecification.							
	9.16.3	40 Amp	Each	01	03	00	03	1275.00	3825.00
	9.16.5	63 Amp	Each	01	03	00	03	1316.00	3948.00
21	27.43	Supplying, installation, testing and commissioning of <b>24 Port Non PoE Managable Giga Byte Switch</b> - 10/100/1000 24 Port Gigabit Managed L3 Network Switch with 4 Gigabyte SFP Port	Each	03	09	00	09	25988.00	233892.00
22	27.47	Supplying, installation, testing and commissioing of 12U Indoor Rack - Wallmount 12U 450D With Front Glass Door Lock & Key 550 12U - (Fan, cable manager, PDU + Fan included) complete as per required.	Each	01	03	00	03	5220.00	15660.00
<b>Total</b>								<b>Rs.</b>	<b>1012600.00</b>

**ESTIMATE OF ELECTRICAL FIXTURES WORK FOR PROPOSED REDEVELOPMENT WORK  
OF WRD OFFICE (S+3) AT KAILASH NAGAR, NH-53, DISTT.- RAJNANDGAON (C.G.)**

S.No.	SOR Item No.	PARTICULARS	UNIT	Qty			Total Qty	RATE ( in Rs.)	AMOUNT (in Rs.)
				Each Unit	03 Unit	Common Service			
A	B	C	D	E	F	G	H (F+G)	I	J (H x I)
01	5.7	Supplying and fixing call bell/ buzzer suitable for single phase, 230 volts A.C. supply, complete as per specification.							
	5.7.2	Deluxe	Each	05	15	00	15	107.00	1605.00
02	6.1	Supplying, installation, testing and commissioning of following sizes <b>ceiling fan</b> including wiring the down rods of standard length up to 30 cm with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable, earthing etc. complete as required. P.F. should be greater than 0.9, with BEE Star rating from 3 star and above, IS: 374:2019 including all amendments.							
	6.1.3	1200 mm sweep	Each	16	48	00	48	1697.00	81456.00
03	6.6	Supplying, installation, testing and commissioning of following sizes heavy duty (continuous running) <b>1400 rpm exhaust fan</b> in existing opening in wall including earthing etc. complete as per specification. P.F. should be greater than 0.9							
	6.6.1	300 mm sweep	Each	01	03	00	03	2446.00	7338.00
04	6.8	Supplying, installation, testing and commissioning of following sizes <b>fancy exhaust fan</b> having built in lovers in existing opening in wall including earthing etc. complete as per specification. P.F. should be greater than							
	6.8.2	300 mm sweep	Each	06	18	00	18	1270.00	22860.00

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

05	6.15	Supplying, installation, testing and commissioning of following <b>LED fitting (luminaries)</b> panel light in round / square shape complete with electronic driver heat sink capacitor and all other accessories on suface/ in false ceiling etc. as per specification and P.F. should be greater than 0.9 LED chip efficacy ratio $\geq 100$ lumens /watt.							
	6.15.6	18/20 Watt	Each	30	90	00	90	868.00	78120.00
06	6.16	Supplying, installation, testing and commissioning of following sleek <b>LED</b> panel down lighters (luminaries) in round/ square shape complete with electronic driver heat sink capacitor and all other accessories on surface/ in false ceiling etc. as per specification and P.F. should be greater than 0.9 LED chip efficacy ratio $\geq 100$ lumens /watt.							
	6.16.2	36 watt, size 600 x 600 mm	Each	25	75	00	75	2342.00	175650.00
07	6.19	Supplying, Installation, testing and commissioning of following <b>LED tube light fitting</b> including batten with Electronic Driver Heat sink Capecitor complete with all other accessories on surface/in false ceiling, including connection, earthing etc complete as per specification and IP20.P.F. should be greater than 0.9 LED chip efficacy ratio $\geq 100$ Lumens/watt.							
	6.19.2	10 watt {2 feet}	Each	11	33	00	33	351.00	11583.00
08	6.27	Supplying, installation, testing and commissioning of following <b>LED Bulk Head fitting</b> complete with Electronic Driver Heat sink Capacitor and all other accessories, including connection, earthing etc complete as per specification and furnishing 5 Yrs Warranty certificate from manufacturer. P.F. should be greater than 0.9. LED chip efficacy ratio $\geq 100$ lumens /watt. IP65							
	6.27.1	10 watt	Each	00	00	40	40	1140.00	45600.00
09	6.28	Supplying, installation, testing and commissioning of following 230/250 volts <b>LED street light fitting</b> with all accessories like driver, heat sink made of die cast aluminium with IP66 protection and 10KV surge protection on pole bracket, including connection, earthing etc complete as per specification and furnishing 5 Yrs Warranty certificate from manufacturer. P.F. should be greater than 0.9. LED chip efficacy ratio $\geq 120$ lumens/watt							
	6.28.6	45 watt	Each	00	00	01	01	2729.00	2729.00
		<b>Total (A)</b>						<b>Rs.</b>	<b>426941.00</b>
<b>AIR CONDITIONER UNIT</b>									
10	24.4	Installation of split type Inverter/Non Inverter Air Conditioner unit, cooling unit on wall inside and condensing unit on out side wall/ ceiling/ floor at desired locations with existing standard length of copper piping with insulation and power cable including providing and fixing necessary good quality powder coated MS frame etc complete as per specification. (Extra length of copper piping and power cable shall be paid extra on linear basis)	Each	09	27	00	27	2110.00	56970.00

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

11	24.7	Supply and fixing of approved make wall mounting type voltage stabilizer with input volts 160-250, output volts 200-240 volts and double step relay on desired location with necessary fixing material including connection etc complete as per specification.							
	24.7.1	4 KVA	Each	09	27	00	27	3832.00	103464.00
12	24.10	Supply, connecting and fixing extra length of copper piping for split type air conditioners of following dia and approved quality with insulation sleeve etc complete as per specification							
	24.10.2	1/2"	Mtr.	90.00	270.00	0.00	270.00	241.00	65070.00
	24.10.3	1/4"	Mtr.	90.00	270.00	0.00	270.00	187.00	50490.00
13	24.12	Supplying, connecting and fixing 15 mm dia PVC flexible drain pipe (reinforced with nylon threads) in drain outlet of split type air conditioners etc complete as per specification	Mtr.	45.00	135.00	0.00	135.00	14.00	1890.00
14	24.20	Supplying of approved make Hiwall split Inverter type Air Conditioner unit with cooling unit (copper coil) and condensing unit (copper coil) including 5 years compressor warranty and standard length of upto 5 metre of copper piping with insulation etc complete as per specification:							
	24.20.8	1.5 Ton split type Inverter AC {5 Star}	Each	09	27	00	27	45340.00	1224180.00
15	24.23	Supplying, installation, testing and commissioning of following size drinking water cooler storage type ISI marked, eco friendly non CFC refrigerant, water tank and cooler cabinet sheet material- stainless steel {grade AISI 304} with thickness $\geq$ 0.8 mm, with PUF insulation including all accessories connection etc complete as per specification.							
	24.23.1	40/80 Ltrs/hr	Each	01	03	00	03	29974.00	89922.00
16	24.24	Supplying, installation, testing and commissioning of following capacity of RO purification system with UF/UV/TDS controller and UV lamp {IS 14724 Ultra violet disinfection} and minimum three stage purification, automatic on/off, output water conforming standard IS 10500 with inbuilt storage tank including all accessories connection etc complete as per specification.							
	24.24.1	25 Ltrs/hr output capacity	Each	01	03	00	03	23508.00	70524.00
		<b>Total (B)</b>						<b>Rs.</b>	<b>1662510.00</b>
		<b>Grand Total (A+B)</b>						<b>Rs.</b>	<b>2089451.00</b>

**ESTIMATE OF INTERNAL ELECTRIFICATION WORK FOR PROPOSED  
REDEVELOPMENT WORK OF WRD OFFICE (S+3) AT KAILASH NAGAR NH-53,  
DISTT.- RAJNANDGAON (C.G.)**

S.No.	SOR Item No.	PARTICULARS	UNIT	Qty			Total Qty	RATE (in Rs.)	AMOUNT (in Rs.)
				Each Unit	06 Unit	Common Service			
A	B	C	D	E	F	G	H (F+G)	I	J (H x I)
01	1.7	Wiring for <b>light/fan/exhaust fan/call bell point</b> with <b>3x1.5 sqmm</b> FRLS PVC insulated stranded copper conductor single core wire for phase, neutral and earth in concealed FRLS PVC conduit, with 5/6 amp modular switch, modular base and cover plate, suitable size G.I. box as per specification.							
	1.7.1	Short Point	Point	13	78	02	80	266.00	21280.00
	1.7.2	Medium Point	Point	34	204	09	213	424.00	90312.00
	1.7.3	Long Point	Point	40	240	25	265	588.00	155820.00
02	1.8	Wiring for <b>twin control light point</b> with <b>3x1.5 sqmm</b> FRLS PVC insulated stranded copper conductor wire for phase, neutral and earth in concealed FRLS PVC conduit (heavy duty, thickness of pipe should be 2 mm) with 5/6 amp modular switch, modular base and cover plate, suitable size G.I. box as per specification and IS: 694 (2010), IS: 9537 (2000 Part 5)	Point	00	00	08	08	420.00	3360.00
03	1.9	<b>Extra</b> for providing and fixing light plug point on board in concealed FRLS PVC conduit point wiring with modular type 3 pin 5/6 amp socket outlet and 5/6 amp switch including cost of base and cover plate and G.I. box etc. as per specification.	Point	35	210	04	214	216.00	46224.00
04	1.10	Wiring for <b>light plug point</b> with 3x2.5 sqmm FRLS PVC insulated stranded copper conductor wire for phase, neutral and earth in concealed FRLS PVC conduit along with modular type 6 Amp switch and 3 pin 6 amps socket outlet with modular base and cover plate, suitable size G.I. box, earthing the switch box and socket outlet with same size wire etc. as per specification.							
	1.10.1	Short Point	Point	09	54	00	54	442.00	23868.00
	1.10.2	Medium Point	Point	11	66	00	66	659.00	43494.00
	1.10.3	Long Point	Point	05	30	00	30	922.00	27660.00
05	1.11	Wiring for <b>power plug point</b> with <b>3x4 sqmm</b> FRLS PVC insulated stranded copper conductor wire for phase, neutral and earth in concealed FRLS PVC conduit, along with modular type 16 Amp switch and 6 pin 16 amps socket outlet with modular base and cover plate, suitable size G.I. box, earthing the switch box and socket outlet with same size wire etc. as per specification.							
	1.11.3	Long Point	Point	01	06	00	06	1350.00	8100.00
	1.11.4	Extra Long Point I	Point	01	06	00	06	1807.00	10842.00
	1.11.5	Extra Long Point II	Point	07	42	00	42	2315.00	97230.00
	1.11.6	Extra Long Point III	Point	05	30	00	30	2825.00	84750.00

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S.No.	SOR Item No.	PARTICULARS	UNIT	Qty			Total Qty	RATE (in Rs.)	AMOUNT (in Rs.)
				Each Unit	06 Unit	Common Service			
A	B	C	D	E	F	G	H (F+G)	I	J (H x I)
06	1.13	Wiring for <b>circuit/ sub main</b> wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, wire in concealed FRLS PVC conduit (heavy duty, thickness of pipe should be 2 mm) as per specification and IS: 694 (2010), IS: 9537 (2000 Part 5)							
	1.13.2	3 X 2.5 sq. mm in 20 mm conduit	Mtr	150.00	900.00	90.00	990.00	111.00	109890.00
	1.13.3	6 X 2.5 sq. mm in 25 mm conduit	Mtr	80.00	480.00	00.00	480.00	172.00	82560.00
	1.13.4	9 X 2.5 sq. mm in 32 mm conduit	Mtr	40.00	240.00	00.00	240.00	238.00	57120.00
	1.13.6	3 X 4 sq. mm in 25 mm conduit	Mtr	35.00	210.00	00.00	210.00	145.00	30450.00
	1.13.14	6 X 10 sq. mm in 32 mm conduit	Mtr	55.00	330.00	00.00	330.00	515.00	169950.00
07	1.15	Supplying and fixing of following sizes FRLS PVC conduit (heavy duty, thickness of pipe should be 2 mm) along with accessories in concealed complete as per specification and IS: 9537 (2000 Part 5)							
	1.15.2	25 mm	Mtr	300.00	1800.00	70.00	1870.00	53.00	99110.00
08	3.11	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, multi strand wire in the existing surface/ concealed, FRLS PVC conduit/ PVC casing capping as per specification.							
	3.11.3	3 x 1.5 sq. mm	Mtr	70.00	420.00	00.00	420.00	37.00	15540.00
	3.11.11	1 x 2.5 sq. mm	Mtr	150.00	900.00	00.00	900.00	22.00	19800.00
09	3.12	Supplying and drawing following pair 0.5 mm FRLS PVC insulated copper conductor, unarmored <b>telephone wire</b> in the existing surface/ concealed Steel/PVC conduit as per specification.							
	3.12.2	2 Pair	Mtr	300.00	1800.00	00.00	1800.00	11.00	19800.00
10	3.13	Supplying and drawing following grade co-axial <b>TV wire</b> FRLS PVC insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface/ concealed Steel/PVC conduit as per specification and IS: 694 (2010)							
	3.13.1	RG-6 grade	Mtr	80.00	480.00	00.00	480.00	14.00	6720.00
11	3.14	Supplying and drawing <b>UTP 4 pair Cat 6 LAN wire</b> in existing surface/ concealed Steel/FRLS PVC conduit as per specification.	Mtr	300.00	1800.00	0.00	1800.00	19.00	34200.00
12	5.4	Supplying and fixing following modular switch, socket, other accessories on the existing modular plate & switch box including connections but excluding modular plate etc. as per specification.							
	5.4.3	Bell push	Each	05	30	00	30	80.00	2400.00
	5.4.9	Fan regulator (Two module size) electronic stepped type moving all rounds	Each	11	66	00	66	223.00	14718.00
	5.4.15	Telephone socket outlet	Each	11	66	00	66	70.00	4620.00
	5.4.16	T.V. antenna socket outlet	Each	02	12	00	12	74.00	888.00
	5.4.17	Computer Outlet Jack	Each	11	66	00	66	242.00	15972.00
	5.4.18	25/32 amp A.C. Starter switch	Each	06	36	00	36	246.00	8856.00
	5.4.22	Batten/ angle holder	Each	02	12	00	12	41.00	492.00
	5.4.23	Blanking plate	Each	60	360	00	360	28.00	10080.00

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S.No.	SOR Item No.	PARTICULARS	UNIT	Qty			Total Qty	RATE (in Rs.)	AMOUNT (in Rs.)
				Each Unit	06 Unit	Common Service			
A	B	C	D	E	F	G	H (F+G)	I	J (H x I)
13	5.6	Providing and fixing <b>composite unit</b> for <b>computer points</b> having modular type 1 No 6 pin 16 amp socket outlet, 1 No 16 amp switch, 3 Nos 3 pin 6 amp socket outlets, 3 Nos 6 amp switches, suitable G.I. box, base and cover plates, earthing the sockets and switch box including etc. as per specification.	Each	02	12	00	12	816.00	9792.00
14	5.9	Providing and fixing round/ hexagonal <b>fan box</b> (125mm dia) depth 75mm (max.) with 12mm dia steel bar hook, 1.6mm thick MS sheet cover, in RCC slab etc. as per specification.	Each	11	66	00	66	42.00	2772.00
15	6.12	Providing and fixing phenolic laminated sheet cover of 180 mm dia 3 mm thick on the <b>fan box</b> etc. as per specification. (If provided at the time of installation of ceiling fan)	Each	11	66	00	66	56.00	3696.00
16	9.3	Supplying and fixing on surface/ recess following way, 240 volts <b>SP&amp;N MCB distribution board</b> consumer unit of sheet steel phosphatized and powder painted, complete with tinned copper busbar, neutral busbar, earth bar, din bar, detachable gland plate, including interconnections, earthing etc. as per specification. (But without MCB/RCCB/Isolator)							
	9.3.1	2 + 4 way	Each	00	00	01	01	624.00	624.00
17	9.4	Supplying and fixing on surface/ recess horizontal type following way, <b>415 volts, TPN MCB distribution board</b> of sheet steel phosphatized and powder painted, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, detachable gland plate, including inter connections, earthing etc. as per specification. (But without MCB/RCCB/Isolator.							
	9.4.4	4 way Double door	Each	01	06	00	06	1716.00	10296.00
	9.4.5	6 way Double door	Each	01	06	00	06	2038.00	12228.00
18	9.11	Supplying and fixing <b>SP MCB</b> , 240 volts, 'C' curve, suitable for inductive load in the existing MCB DB complete with connections, testing and commissioning etc. as per specification.							
	9.11.2	6 amps to 32 amps	Each	30	180	04	184	148.00	27232.00
19	9.12	Supplying and fixing <b>DP MCB</b> , 240 volts, 'C' curve, suitable for lighting and other loads in the existing MCB DB complete with connections, testing and commissioning etc. as per specification.							
	9.12.2	6 amps to 32 amps	Each	00	00	01	01	411.00	411.00
20	9.16	Supplying and fixing <b>TP&amp;N MCB, 440 volts</b> , 'C'curve, suitable for lighting and other load sin the existing MCB DB complete with connections, testing and commissioning etc. as perspecification.							
	9.16.3	40 Amp	Each	01	06	00	06	1275.00	7650.00
	9.16.5	63 Amp	Each	01	06	00	06	1316.00	7896.00

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S.No.	SOR Item No.	PARTICULARS	UNIT	Qty			Total Qty	RATE ( in Rs.)	AMOUNT (in Rs.)
				Each Unit	06 Unit	Common Service			
A	B	C	D	E	F	G	H (F+G)	I	J (H x I)
21	27.47	Supplying, installation, testing and commissioing of 12U Indoor Rack - Wallmount 12U 450D With Front Glass Door Lock & Key 550 12U - (Fan, cable manager, PDU + Fan included) complete as per required.	Each	01	06	00	06	5220.00	31320.00
		<b>Total</b>						<b>Rs.</b>	<b>1430023.00</b>

**ESTIMATE OF ELECTRICAL FIXTURES WORK FOR PROPOSED  
REDEVELOPMENT WORK OF WRD OFFICE (S+3) AT KAILASH NAGAR, NH-53,  
DISTT.- RAJNANDGAON (C.G.)**

S.No.	SOR Item No.	PARTICULARS	UNIT	Qty			Total Qty	RATE (in Rs.)	AMOUNT (in Rs.)
				Each Unit	06 Unit	Common Service			
A	B	C	D	E	F	G	H (F+G)	I	J (H x I)
01	5.7	Supplying and fixing call bell/ buzzer suitable for single phase, 230 volts A.C. supply, complete as per specification.							
	5.7.2	Deluxe	Each	05	30	00	30	107.00	3210.00
02	6.1	Supplying, installation, testing and commissioning of following sizes <b>ceiling fan</b> including wiring the down rods of standard length up to 30 cm with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable, earthing etc. complete as required. P.F. should be greater than 0.9, with BEE Star rating from 3 star and above, IS: 374:2019 including all amendments.							
	6.1.3	1200 mm sweep	Each	11	66	00	66	1697.00	112002.00
03	6.6	Supplying, installation, testing and commissioning of following sizes heavy duty (continuous running) <b>1400 rpm exhaust fan</b> in existing opening in wall including earthing etc. complete as per specification. P.F. should be greater than 0.9							
	6.6.1	300 mm sweep	Each	01	06	00	06	2446.00	14676.00
04	6.8	Supplying, installation, testing and commissioning of following sizes <b>fancy exhaust fan</b> having built in lovers in existing opening in wall including earthing etc. complete as per specification. P.F. should be greater than							
	6.8.2	300 mm sweep	Each	06	36	00	36	1270.00	45720.00
05	6.15	Supplying, installation, testing and commissioning of following <b>LED fitting (luminaries)</b> panel light in round / square shape complete with electronic driver heat sink capacitor and all other accessories on suface/ in false ceiling etc. as per specification and P.F. should be greater than 0.9 LED chip efficacy ratio $\geq 100$ lumens /watt.							
	6.15.6	18/20 Watt	Each	30	180	00	180	868.00	156240.00
06	6.16	Supplying, installation, testing and commissioning of following sleek <b>LED</b> panel down lighters (luminaries) in round/ square shape complete with electronic driver heat sink capacitor and all other accessories on surface/ in false ceiling etc. as per specification and P.F. should be greater than 0.9 LED chip efficacy ratio $\geq 100$ lumens /watt							
	6.16.2	36 watt, size 600 x 600 mm	Each	25	150	00	150	2342.00	351300.00
07	6.19	Supplying, Installation, testing and commissioning of following <b>LED tube light fitting</b> including batten with Electronic Driver Heat sink Capecitor complete with all other accessories on surface/in false ceiling, including connection, earthing etc complete as per specification and IP20.P.F. should be greater than 0.9 LED chip efficacy ratio $\geq 100$ Lumens/watt.							
	6.19.2	10 watt {2 feet}	Each	11	66	00	66	351.00	23166.00

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S.No.	SOR Item No.	PARTICULARS	UNIT	Qty			Total Qty	RATE (in Rs.)	AMOUNT (in Rs.)
				Each Unit	06 Unit	Common Service			
A	B	C	D	E	F	G	H (F+G)	I	J (H x I)
08	6.27	Supplying, installation, testing and commissioning of following <b>LED Bulk Head fitting</b> complete with Electronic Driver Heat sink Capacitor and all other accessories, including connection, earthing etc complete as per specification and P.F. should be greater than 0.9. LED chip efficacy ratio $\geq 100$ lumens /watt. IP65							
	6.27.1	10 watt	Each	00	00	40	40	1140.00	45600.00
09	6.28	Supplying, installation, testing and commissioning of following 230/250 volts <b>LED street light fitting</b> with all accessories like driver, heat sink made of die cast aluminium with IP66 protection and 15KV surge protection on pole bracket, including connection, earthing etc complete as per specification and P.F. should be greater than 0.9. LED chip efficacy ratio $\geq 120$ lumens/watt							
	6.28.6	45 watt	Each	00	00	01	01	2729.00	2729.00
		<b>Total (A)</b>						<b>Rs.</b>	<b>754643.00</b>
10	24.4	Installation of split type Inverter/Non Inverter Air Conditioner unit, cooling unit on wall inside and condensing unit on out side wall/ ceiling/ floor at desired locations with existing standard length of copper piping with insulation and power cable including providing and fixing necessary good quality powder coated MS frame etc complete as per specification. (Extra length of copper piping and power cable shall be paid extra on linear basis)	Each	07	42	00	42	2110.00	88620.00
11	24.7	Supply and fixing of approved make wall mounting type voltage stabilizer with input volts 160-250, output volts 200-240 volts and double step relay on desired location with necessary fixing material including connection etc complete as per specification.							
	24.7.1	4 KVA	Each	07	42	00	42	3832.00	160944.00
12	24.20	Supplying of approved make Hiwall split Inverter type Air Conditioner unit with cooling unit (copper coil) and condensing unit (copper coil) including 5 years compressor warranty and standard length of upto 5 metre of copper piping with insulation etc complete as per specification:							
	24.20.8	1.5 Ton split type Inverter AC {5 Star}	Each	04	24	00	24	45340.00	1088160.00
	24.20.9	2.0 Ton split type Inverter AC {5 Star}	Each	03	18	00	18	55830.00	1004940.00
13	24.23	Supplying, installation, testing and commissioning of following size drinking water cooler storage type ISI marked, eco friendly non CFC refrigerant, water tank and cooler cabinet sheet material- stainless steel {grade AISI 304} with thickness $\geq 0.8$ mm, with PUF insulation including all accessories connection etc complete as per specification.							
	24.23.1	40/80 Ltrs/hr	Each	01	06	00	06	29974.00	179844.00

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S.No.	SOR Item No.	PARTICULARS	UNIT	Qty			Total Qty	RATE ( in Rs.)	AMOUNT (in Rs.)
				Each Unit	06 Unit	Common Service			
A	B	C	D	E	F	G	H (F+G)	I	J (H x I)
14	24.24	Supplying, installation, testing and commissioning of following capacity of RO purification system with UF/UV/TDS controler and UV lamp {IS 14724 Ultra violet disinfection} and minimum three stage purification, automatic on/off, output water conforming standard IS 10500 with inbuild storage tank including all accessories connection etc complete as per specification.							
	24.24.1	25 Ltrs/hr output capacity	Each	01	06	00	06	23508.00	141048.00
		<b>Total (B)</b>							<b>Rs. 2663556.00</b>
		<b>Grand Total (A+B)</b>							<b>Rs. 3418199.00</b>

**ESTIMATE OF INTERNAL ELECTRIFICATION WORK FOR PROPOSED  
REDEVELOPMENT WORK OF E TYPE DUPLEX BUNGALOW AT  
KAILASH NAGAR, NH-53, DISTT.- RAJNANDGAON (C.G.)**

S.No.	SOR Item No.	PARTICULARS	UNIT	Qty	RATE (in Rs.)	AMOUNT (in Rs.)
01	1.7	Wiring for <b>light/fan/exhaust fan/call bell point</b> with <b>3x1.5 sqmm</b> FRLS PVC insulated stranded copper conductor single core wire for phase, neutral and earth in concealed FRLS PVC conduit, with 5/6 amp modular switch, modular base and cover plate, suitable size G.I. box as per specification.				
	1.7.1	Short Point	Point	12	266.00	3192.00
	1.7.2	Medium Point	Point	16	424.00	6784.00
	1.7.3	Long Point	Point	22	588.00	12936.00
02	1.8	Wiring for <b>twin control light point</b> with <b>3x1.5 sqmm</b> FRLS PVC insulated stranded copper conductor wire for phase, neutral and earth in concealed FRLS PVC conduit (heavy duty, thickness of pipe should be 2 mm) with 5/6 amp modular switch, modular base and cover plate, suitable size G.I. box as per specification and IS: 694 (2010), IS: 9537 (2000 Part 5)	Point	10	420.00	4200.00
03	1.9	<b>Extra</b> for providing and fixing light plug point on board in concealed FRLS PVC conduit point wiring with modular type 3 pin 5/6 amp socket outlet and 5/6 amp switch including cost of base and cover plate and G.I. box etc. as per specification.	Point	14	216.00	3024.00
04	1.10	Wiring for <b>light plug point</b> with <b>3x2.5 sqmm</b> FRLS PVC insulated stranded copper conductor wire for phase, neutral and earth in concealed FRLS PVC conduit along with modular type 6 Amp switch and 3 pin 6 amps socket outlet with modular base and cover plate, suitable size G.I. box, earthing the switch box and socket outlet with same size wire etc. as per specification.				
	1.10.1	Short Point	Point	03	442.00	1326.00
	1.10.2	Medium Point	Point	05	659.00	3295.00
	1.10.3	Long Point	Point	06	922.00	5532.00

S.No.	SOR Item No.	PARTICULARS	UNIT	Qty	RATE (in Rs.)	AMOUNT (in Rs.)
05	1.11	Wiring for <b>power plug</b> point with <b>3x4 sqmm</b> FRLS PVC insulated stranded copper conductor wire for phase, neutral and earth in concealed FRLS PVC conduit, along with modular type 16 Amp switch and 6 pin 16 amps socket outlet with modular base and cover plate, suitable size G.I. box, earthing the switch box and socket outlet with same size wire etc. as per specification.				
	1.11.3	Long Point	Point	04	1350.00	5400.00
	1.11.4	Extra Long Point I	Point	03	1807.00	5421.00
	1.11.5	Extra Long Point II	Point	02	2315.00	4630.00
06	1.13	Wiring for <b>circuit/ sub main</b> wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, wire in concealed FRLS PVC conduit (heavy duty, thickness of pipe should be 2 mm) as per specification and IS: 694 (2010), IS: 9537 (2000 Part 5)				
	1.13.2	3 X 2.5 sq. mm in 20 mm conduit	Mtr	140.00	111.00	15540.00
	1.13.3	6 X 2.5 sq. mm in 25 mm conduit	Mtr	100.00	172.00	17200.00
	1.13.4	9 X 2.5 sq. mm in 32 mm conduit	Mtr	70.00	238.00	16660.00
	1.13.6	3 X 4 sq. mm in 25 mm conduit	Mtr	60.00	145.00	8700.00
	1.13.14	6 X 10 sq. mm in 40 mm conduit	Mtr	22.00	515.00	11330.00
07	1.15	Supplying and fixing of following sizes FRLS PVC conduit (heavy duty, thickness of pipe should be 2 mm) along with accessories in concealed complete as per specification and IS: 9537 (2000 Part 5)				
	1.15.2	25 mm	Mtr	65.00	53.00	3445.00
08	3.11	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, multi strand wire in the existing surface/ concealed, FRLS PVC conduit/ PVC casing capping as per specification.				
	3.11.3	3 x 1.5 sq. mm	Mtr	60.00	37.00	2220.00
	3.11.11	1 x 2.5 sq. mm	Mtr	100.00	22.00	2200.00
09	3.13	Supplying and drawing following grade co-axial TV wire FRLS PVC insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface/ concealed Steel/PVC conduit as per specification and IS: 694 (2010)				
	3.13.1	RG-6 grade	Mtr	70.00	14.00	980.00
10	4.4	Supplying and fixing following size/ modules, GI box along with modular base & cover plate for modular switches in recess etc as per specification.				

S.No.	SOR Item No.	PARTICULARS	UNIT	Qty	RATE (in Rs.)	AMOUNT (in Rs.)
	4.4.1	75 mmX75 mm (1/2 Module)	Each	04	99.00	396.00
	4.4.2	100 mmX75 mm (3 Module)	Each	02	129.00	258.00
11	5.4	Supplying and fixing following modular switch, socket, other accessories on the existing modular plate & switch box including connections but excluding modular plate etc. as per specification.				
	5.4.3	Bell push	Each	02	80.00	160.00
	5.4.4	15/16 amp switch	Each	02	89.00	178.00
	5.4.6	6 pin 15/16 amp socket outlet	Each	02	120.00	240.00
	5.4.9	Fan regulator (Two module size) electronic stepped type moving all rounds	Each	09	223.00	2007.00
	5.4.11	Plug Top (Deluxe type) 3 pin 16 Amps (For power plug).	Each	02	85.00	170.00
	5.4.16	T.V. antenna socket outlet	Each	04	74.00	296.00
	5.4.18	25/32 amp A.C. Starter switch	Each	05	246.00	1230.00
	5.4.22	Batten/ angle holder	Each	16	41.00	656.00
	5.4.23	Blanking plate	Each	22	28.00	616.00
12	5.6	Providing and fixing <b>composite unit</b> for computer points having modular type 1 No 6 pin 16 amp socket outlet, 1 No 16 amp switch, 3 Nos 3 pin 6 amp socket outlets, 3 Nos 6 amp switches, suitable G.I. box, base and cover plates, earthing the sockets and switch box including etc. as per specification.	Each	04	816.00	3264.00
13	5.9	Providing and fixing round/ hexagonal <b>fan box</b> (125mm dia) depth 75mm (max.) with 12mm dia steel bar hook, 1.6mm thick MS sheet cover, in RCC slab etc. as per specification.	Each	09	42.00	378.00
14	6.12	Providing and fixing phenolic laminated sheet cover of 180 mm dia 3 mm thick on the <b>fan box</b> etc. as per specification. (If provided at the time of installation of ceiling fan)	Each	09	56.00	504.00
15	6.50	Providing and fixing <b>wooden board</b> of suitable size (18"x 24") for energy meter etc complete as per specification.	Each	01	123.00	123.00
16	7.11	Providing and fixing <b>porcelain re-wireable fuse</b> carrier and base unit on wooden board including drilling holes on the board, screws, connections etc. as per specification. (Thimbeling shall be paid separately).				
	7.11.3	63 amps	Each	04	162.00	648.00

S.No.	SOR Item No.	PARTICULARS	UNIT	Qty	RATE (in Rs.)	AMOUNT (in Rs.)
17	9.4	Supplying and fixing on surface/ recess horizontal type following way, <b>415 volts, TPN MCB distribution board</b> of sheet steel phosphatized and powder painted, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, detachable gland plate, including inter connections, earthing etc. as per specification. (But without MCB/RCCB/Isolator.				
	9.4.5	6 way Double door	Each	02	2038.00	4076.00
18	9.11	Supplying and fixing <b>SP MCB</b> , 240 volts, 'C' curve, suitable for inductive load in the existing MCB DB complete with connections, testing and commissioning etc. as per specification.				
	9.11.2	6 amps to 32 amps	Each	36	148.00	5328.00
19	9.16	Supplying and fixing <b>TP&amp;N MCB</b> , <b>440 volts</b> , 'C'curve, suitable for lighting and other load sin the existing MCB DB complete with connections, testing and commissioning etc. as perspecification.				
	9.16.5	63 Amp	Each	02	1316.00	2632.00
20	12.16	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as per specification.	Mtr	30.00	115.00	3450.00
21	12.19	Providing maintenance free <b>earthing</b> with following size GI pipe including making bore pit of minimum 150mm dia, providing and laying approved make Earthing Electrode of Pipe-in-Pipe technology as per IS 3043-1987 made of corrosion free G.I. Pipes having outer pipe of 80mm dia and inner pipe of 50mm dia and filling with specified qty highly conductive compound around pipe and above that with soft soil in bore pit complete and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. as per specification:				
	12.19.2	With 2 metre long GI Pipes and 25 kg back filling compound.	Each	02	8222.00	16444.00
		<b>Total (A)</b>			<b>Rs.</b>	<b>177069.00</b>
<b>Fixtures</b>						
22	5.7	Supplying and fixing call bell/ buzzer suitable for single phase, 230 volts A.C. supply, complete as per specification.				
	5.7.2	Deluxe	Each	01	107.00	107.00

## PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S.No.	SOR Item No.	PARTICULARS	UNIT	Qty	RATE (in Rs.)	AMOUNT (in Rs.)
23	6.1	Supplying, installation, testing and commissioning of following sizes <b>ceiling fan</b> including wiring the down rods of standard length up to 30 cm with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable, earthing etc. complete as required. P.F. should be greater than 0.9, with BEE Star rating from 3 star and above, IS: 374:2019 including all amendments.				
	6.1.3	1200 mm sweep	Each	09	1697.00	15273.00
24	6.6	Supplying, installation, testing and commissioning of following sizes heavy duty (continuous running) <b>1400 rpm exhaust fan</b> in existing opening in wall including earthing etc. complete as per specification. P.F. should be greater than 0.9				
	6.6.1	300 mm sweep	Each	01	2446.00	2446.00
25	6.8	Supplying, installation, testing and commissioning of following sizes <b>fancy exhaust fan</b> having built in lovers in existing opening in wall including earthing etc. complete as per specification. P.F. should be greater than 0.9				
	6.8.2	300 mm sweep	Each	05	1270.00	6350.00
26	6.19	Supplying, Installation, testing and commissioning of following <b>LED tube light fitting</b> including batten with Electronic Driver Heat sink Capecitor complete with all other accessories on surface/in false ceiling, including connection, earthing etc complete as per specification and IP20.P.F. should be greater than 0.9 LED chip efficacy ratio $\geq 100$ Lumens/watt.				
	6.19.2	10 watt {2 feet}	Each	10	351.00	3510.00
	6.19.3	18/20 watt (4 feet)	Each	30	443.00	13290.00
27	6.27	Supplying, installation, testing and commissioning of following <b>LED Bulk Head fitting</b> complete with Electronic Driver Heat sink Capacitor and all other accessories, including connection, earthing etc complete as per specification and P.F. should be greater than 0.9. LED chip efficacy ratio $\geq 100$ lumens /watt. IP65				
	6.27.1	10 watt	Each	06	1140.00	6840.00
		<b>Total (B)</b>			<b>Rs.</b>	<b>47816.00</b>
		<b>Grand Total (A+B) for 01 Nos. House</b>			<b>Rs.</b>	<b>224885.00</b>
		<b>Hence for 02 Nos. House</b>			<b>Rs.</b>	<b>449770.00</b>

**ESTIMATE OF INTERNAL ELECTRIFICATION WORK FOR PROPOSED  
REDEVELOPMENT WORK OF G TYPE QUARTER (S+6) AT KAILASH NAGAR, NH-53,  
DISTT.- RAJNANDGAON (C.G.)**

S.No.	SOR Item No.	PARTICULARS	UNIT	Qty			Total Qty	RATE (in Rs.)	AMOUNT (in Rs.)
				Each Unit	24 Unit (1 Block)	Common Service (1 Block)			
A	B	C	D	E	F	G	H (F+G)	I	J (H x I)
01	1.7	Wiring for <b>light/fan/exhaust fan/call bell point</b> with <b>3x1.5 sqmm</b> FRLS PVC insulated stranded copper conductor single core wire for phase, neutral and earth in concealed FRLS PVC conduit, with 5/6 amp modular switch, modular base and cover plate, suitable size G.I. box as per specification.							
	1.7.1	Short Point	Point	07	168	01	169	266.00	44954.00
	1.7.2	Medium Point	Point	07	168	09	177	424.00	75048.00
	1.7.3	Long Point	Point	10	240	31	271	588.00	159348.00
02	1.8	Wiring for <b>twin control light point</b> with <b>3x1.5 sqmm</b> FRLS PVC insulated stranded copper conductor wire for phase, neutral and earth in concealed FRLS PVC conduit (heavy duty, thickness of pipe should be 2 mm) with 5/6 amp modular switch, modular base and cover plate, suitable size G.I. box as per specification and IS: 694 (2010), IS: 9537 (2000 Part 5)	Point	08	192	08	200	420.00	84000.00
03	1.9	<b>Extra</b> for providing and fixing light plug point on board in concealed FRLS PVC conduit point wiring with modular type 3 pin 5/6 amp socket outlet and 5/6 amp switch including cost of base and cover plate and G.I. box etc. as per specification.	Point	08	192	04	196	216.00	42336.00
04	1.10	Wiring for <b>light plug point</b> with <b>3x2.5 sqmm</b> FRLS PVC insulated stranded copper conductor wire for phase, neutral and earth in concealed FRLS PVC conduit along with modular type 6 Amp switch and 3 pin 6 amps socket outlet with modular base and cover plate, suitable size G.I. box, earthing the switch box and socket outlet with same size wire etc. as per specification.							
	1.10.1	Short Point	Point	01	24	00	24	442.00	10608.00
	1.10.2	Medium Point	Point	04	96	00	96	659.00	63264.00
	1.10.3	Long Point	Point	04	96	00	96	922.00	88512.00
	1.10.4	Extra Long Point I	Point	01	24	00	24	1302.00	31248.00
05	1.11	Wiring for <b>power plug point</b> with <b>3x4 sqmm</b> FRLS PVC insulated stranded copper conductor wire for phase, neutral and earth in concealed FRLS PVC conduit, along with modular type 16 Amp switch and 6 pin 16 amps socket outlet with modular base and cover plate, suitable size G.I. box, earthing the switch box and socket outlet with same size wire etc. as per specification.							
	1.11.3	Long Point	Point	01	24	00	24	1350.00	32400.00
	1.11.4	Extra Long Point I	Point	03	72	00	72	1807.00	130104.00
	1.11.5	Extra Long Point II	Point	03	72	00	72	2315.00	166680.00

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S.No.	SOR Item No.	PARTICULARS	UNIT	Qty			Total Qty	RATE (in Rs.)	AMOUNT (in Rs.)
				Each Unit	24 Unit (1 Block)	Common Service (1 Block)			
A	B	C	D	E	F	G	H (F+G)	I	J (H x I)
06	1.13	Wiring for <b>circuit/ sub main</b> wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, wire in concealed FRLS PVC conduit (heavy duty, thickness of pipe should be 2 mm) as per specification and IS: 694 (2010), IS: 9537 (2000 Part 5)							
.	1.13.2	3 X 2.5 sq. mm in 20 mm conduit	Mtr	90.00	2160.00	100.00	2260.00	111.00	250860.00
	1.13.3	6 X 2.5 sq. mm in 25 mm conduit	Mtr	45.00	1080.00	00.00	1080.00	172.00	185760.00
	1.13.4	9 X 2.5 sq. mm in 32 mm conduit	Mtr	20.00	480.00	00.00	480.00	238.00	114240.00
	1.13.6	3 X 4 sq. mm in 25 mm conduit	Mtr	70.00	1680.00	00.00	1680.00	145.00	243600.00
	1.13.14	6 X 10 sq. mm in 40 mm conduit	Mtr	40.00	960.00	00.00	960.00	515.00	494400.00
07	1.15	Supplying and fixing of following sizes FRLS PVC conduit (heavy duty, thickness of pipe should be 2 mm) along with accessories in concealed complete as per specification and IS: 9537 (2000 Part 5)							
	1.15.2	25 mm	Mtr	120.00	2880.00	100.00	2980.00	53.00	157940.00
08	3.11	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, multi strand wire in the existing surface/ concealed, FRLS PVC conduit/ PVC casing capping as per specification.							
	3.11.3	3 x 1.5 sq. mm	Mtr	60.00	1440.00	00.00	1440.00	37.00	53280.00
	3.11.11	1 x 2.5 sq. mm	Mtr	60.00	1440.00	00.00	1440.00	22.00	31680.00
09	3.13	Supplying and drawing following grade co-axial <b>TV wire</b> FRLS PVC insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface/ concealed Steel/PVC conduit as per specification and IS: 694 (2010)							
	3.13.1	RG-6 grade	Mtr	80.00	1920.00	00.00	1920.00	14.00	26880.00
10	4.4	Supplying and fixing following size/ <b>modules, GI box</b> along with modular base & cover plate for modular switches in recess etc as per specification.							
	4.4.1	75 mm X 75 mm (1/2 Module)	Each	03	72	00	72	99.00	7128.00
	4.4.2	100 mm X 75 mm (3 Module)	Each	02	48	00	48	129.00	6192.00
11	5.4	Supplying and fixing following modular switch, socket, other accessories on the existing modular plate & switch box including connections but excluding modular plate etc. as per specification.							
	5.4.3	Bell push	Each	01	24	00	24	80.00	1920.00
	5.4.4	15/16 amp switch	Each	02	48	00	48	89.00	4272.00
	5.4.6	6 pin 15/16 amp socket outlet	Each	02	48	00	48	120.00	5760.00
	5.4.9	Fan regulator (Two module size) electronic stepped type moving all rounds	Each	05	120	00	120	223.00	26760.00
	5.4.11	Plug Top (Deluxe type) 3 pin 16 Amps (For power plug).	Each	02	48	00	48	85.00	4080.00
	5.4.16	T.V. antenna socket outlet	Each	03	72	00	72	74.00	5328.00
	5.4.18	25/32 amp A.C. Starter switch	Each	03	72	00	72	246.00	17712.00
	5.4.22	Batten/ angle holder	Each	05	120	00	120	41.00	4920.00
	5.4.23	Blanking plate	Each	40	960	00	960	28.00	26880.00

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S.No.	SOR Item No.	PARTICULARS	UNIT	Qty			Total Qty	RATE (in Rs.)	AMOUNT (in Rs.)
				Each Unit	24 Unit (1 Block)	Common Service (1 Block)			
A	B	C	D	E	F	G	H (F+G)	I	J (H x I)
12	5.6	Providing and fixing composite unit for computer points having modular type 1 No 6 pin 16 amp socket outlet, 1 No 16 amp switch, 3 Nos 3 pin 6 amp socket outlets, 3 Nos 6 amp switches, suitable G.I. box, base and cover plates, earthing the sockets and switch box including etc. as per specification.	Each	03	72	00	72	816.00	58752.00
13	5.9	Providing and fixing round/ hexagonal <b>fan box</b> (125mm dia) depth 75mm (max.) with 12mm dia steel bar hook, 1.6mm thick MS sheet cover, in RCC slab etc. as per specification.	Each	05	120	00	120	42.00	5040.00
14	6.12	Providing and fixing phenolic laminated sheet cover of 180 mm dia 3 mm thick on the <b>fan box</b> etc. as per specification. (If provided at the time of installation of ceiling fan)	Each	05	120	00	120	56.00	6720.00
15	9.2	Supplying and fixing on surface/ recess following way, 240 volts <b>SP&amp;N MCB distribution board</b> of sheet steel phosphatized and powder painted complete with tinned copper busbar, neutral busbar, earth bar, din bar, detachable gland plate, including interconnections, earthing etc. as per specification. (But without MCB/RCCB/Isolator)							
	9.2.5	4 way, Double door	Each	00	00	01	01	784.00	784.00
16	9.4	Supplying and fixing on surface/ recess horizontal type following way, <b>415 volts, TPN MCB distribution board</b> of sheet steel phosphatized and powder painted, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, detachable gland plate, including inter connections, earthing etc. as per specification. (But without MCB/RCCB/Isolator.							
	9.4.5	6 way Double door	Each	01	24	00	24	2038.00	48912.00
17	9.11	Supplying and fixing <b>SP MCB</b> , 240 volts, 'C' curve, suitable for inductive load in the existing MCB DB complete with connections, testing and commissioning etc. as per specification.							
	9.11.2	6 amps to 32 amps	Each	18	432	02	434	148.00	64232.00
18	9.12	Supplying and fixing <b>DP MCB</b> , 240 volts, 'C' curve, suitable for lighting and other loads in the existing MCB DB complete with connections, testing and commissioning etc. as per specification.							
	9.12.2	6 amps to 32 amps	Each	00	00	01	01	411.00	411.00
19	9.16	Supplying and fixing <b>TP&amp;N MCB</b> , <b>440 volts</b> , 'C'curve, suitable for lighting and other load sin the existing MCB DB complete with connections, testing and commissioning etc. as perspecification.							
	9.16.5	63 Amp	Each	01	24	00	24	1316.00	31584.00
		<b>Total (A)</b>						<b>Rs.</b>	<b>2814529.00</b>

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S.No.	SOR Item No.	PARTICULARS	UNIT	Qty			Total Qty	RATE (in Rs.)	AMOUNT (in Rs.)
				Each Unit	24 Unit (1 Block)	Common Service (1 Block)			
A	B	C	D	E	F	G	H (F+G)	I	J (H x I)
<b>Fixtures</b>									
20	5.7	Supplying and fixing call bell/ buzzer suitable for single phase, 230 volts A.C. supply, complete as per specification.							
	5.7.2	Deluxe	Each	01	24	00	24	107.00	2568.00
21	6.1	Supplying, installation, testing and commissioning of following sizes <b>ceiling fan</b> including wiring the down rods of standard length up to 30 cm with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable, earthing etc. complete as required. P.F. should be greater than 0.9, with BEE Star rating from 3 star and above, IS: 374:2019 including all amendments.							
	6.1.3	1200 mm sweep	Each	05	120	00	120	1697.00	203640.00
22	6.6	Supplying, installation, testing and commissioning of following sizes heavy duty (continuous running) <b>1400 rpm exhaust fan</b> in existing opening in wall including earthing etc. complete as per specification. P.F. should be greater than 0.9							
	6.6.1	300 mm sweep	Each	01	24	00	24	2446.00	58704.00
23	6.8	Supplying, installation, testing and commissioning of following sizes <b>fancy exhaust fan</b> having built in lovers in existing opening in wall including earthing etc. complete as per specification. P.F. should be greater than 0.9							
	6.8.2	300 mm sweep	Each	02	48	00	48	1270.00	60960.00
24	6.19	Supplying, Installation, testing and commissioning of following <b>LED tube light fitting</b> including batten with Electronic Driver Heat sink Capacitor complete with all other accessories on surface/in false ceiling, including connection, earthing etc complete as per specification and IP20.P.F. should be greater than 0.9 LED chip efficacy ratio $\geq 100$ Lumens/watt.							
	6.19.2	10 watt {2 feet}	Each	03	72	00	72	351.00	25272.00
	6.19.3	18/20 watt (4 feet)	Each	11	264	30	294	443.00	130242.00
25	6.27	Supplying, installation, testing and commissioning of following <b>LED Bulk Head fitting</b> complete with Electronic Driver Heat sink Capacitor and all other accessories, including connection, earthing etc complete as per specification and P.F. should be greater than 0.9. LED chip efficacy ratio $\geq 100$ lumens /watt. IP65							
	6.27.1	10 watt	Each	00	00	15	15	1140.00	17100.00
26	6.28	Supplying, installation, testing and commissioning of following 230/250 volts <b>LED street light fitting</b> with all accessories like driver, heat sink made of die cast aluminium with IP66 protection and 15KV surge protection on pole bracket, including connection, earthing etc complete as per specification and P.F. should be greater than 0.9. LED chip efficacy ratio $\geq 120$ lumens/watt							

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S.No.	SOR Item No.	PARTICULARS	UNIT	Qty			Total Qty	RATE (in Rs.)	AMOUNT (in Rs.)
				Each Unit	24 Unit (1 Block)	Common Service (1 Block)			
A	B	C	D	E	F	G	H (F+G)	I	J (H x I)
	6.28.6	45 watt	Each	00	00	01	01	2729.00	2729.00
		Total (B)						Rs.	501215.00
		Grand Total (A+B)						Rs.	3315744.00

**ESTIMATE OF INTERNAL ELECTRIFICATION WORK FOR PROPOSED  
REDEVELOPMENT WORK OF H TYPE QUARTER (S+6) AT KAILASH NAGAR, NH-53,  
DISTT.- RAJNANDGAON (C.G.)**

S.No.	SOR Item No.	PARTICULARS	UNIT	Qty			Total Qty	RATE (in Rs.)	AMOUNT (in Rs.)
				Each Unit	24 Unit (1 Block)	Common Service (1 Block)			
A	B	C	D	E	F	G	H (F+G)	I	J (H x I)
01	1.7	Wiring for <b>light/fan/exhaust fan/call bell point</b> with <b>3x1.5 sqmm</b> FRLS PVC insulated stranded copper conductor single core wire for phase, neutral and earth in concealed FRLS PVC conduit, with 5/6 amp modular switch, modular base and cover plate, suitable size G.I. box as per specification.							
	1.7.1	Short Point	Point	05	120	01	121	266.00	32186.00
	1.7.2	Medium Point	Point	06	144	07	151	424.00	64024.00
	1.7.3	Long Point	Point	08	192	25	217	588.00	127596.00
02	1.8	Wiring for <b>twin control light point</b> with <b>3x1.5 sqmm</b> FRLS PVC insulated stranded copper conductor wire for phase, neutral and earth in concealed FRLS PVC conduit (heavy duty, thickness of pipe should be 2 mm) with 5/6 amp modular switch, modular base and cover plate, suitable size G.I. box as per specification and IS: 694 (2010), IS: 9537 (2000 Part 5)							
			Point	04	96	08	104	420.00	43680.00
03	1.9	<b>Extra</b> for providing and fixing light plug point on board in concealed FRLS PVC conduit point wiring with modular type 3 pin 5/6 amp socket outlet and 5/6 amp switch including cost of base and cover plate and G.I. box etc. as per specification.							
			Point	05	120	04	124	216.00	26784.00
04	1.10	Wiring for <b>light plug point</b> with <b>3x2.5 sqmm</b> FRLS PVC insulated stranded copper conductor wire for phase, neutral and earth in concealed FRLS PVC conduit along with modular type 6 Amp switch and 3 pin 6 amps socket outlet with modular base and cover plate, suitable size G.I. box, earthing the switch box and socket outlet with same size wire etc. as per specification.							
	1.10.2	Medium Point	Point	01	24	00	24	659.00	15816.00
	1.10.3	Long Point	Point	04	96	00	96	922.00	88512.00
	1.10.4	Extra Long Point I	Point	02	48	00	48	1302.00	62496.00
05	1.11	Wiring for <b>power plug point</b> with <b>3x4 sqmm</b> FRLS PVC insulated stranded copper conductor wire for phase, neutral and earth in concealed FRLS PVC conduit, along with modular type 16 Amp switch and 6 pin 16 amps socket outlet with modular base and cover plate, suitable size G.I. box, earthing the switch box and socket outlet with same size wire etc. as per specification.							
	1.11.3	Long Point	Point	01	24	00	24	1350.00	32400.00
	1.11.4	Extra Long Point I	Point	02	48	00	48	1807.00	86736.00
	1.11.5	Extra Long Point II	Point	02	48	00	48	2315.00	111120.00

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S.No.	SOR Item No.	PARTICULARS	UNIT	Qty			Total Qty	RATE (in Rs.)	AMOUNT (in Rs.)
				Each Unit	24 Unit (1 Block)	Common Service (1 Block)			
A	B	C	D	E	F	G	H (F+G)	I	J (H x I)
06	1.13	Wiring for <b>circuit/ sub main</b> wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, wire in concealed FRLS PVC conduit (heavy duty, thickness of pipe should be 2 mm) as per specification and IS: 694 (2010), IS: 9537 (2000 Part 5)							
.	1.13.2	3 X 2.5 sq. mm in 20 mm conduit	Mtr	80.00	1920.00	80.00	2000.00	111.00	222000.00
	1.13.3	6 X 2.5 sq. mm in 25 mm conduit	Mtr	40.00	960.00	00.00	960.00	172.00	165120.00
	1.13.4	9 X 2.5 sq. mm in 32 mm conduit	Mtr	15.00	360.00	00.00	360.00	238.00	85680.00
	1.13.6	3 X 4 sq. mm in 25 mm conduit	Mtr	55.00	1320.00	00.00	1320.00	145.00	191400.00
	1.13.14	6 X 10 sq. mm in 32 mm conduit	Mtr	36.00	864.00	00.00	864.00	515.00	444960.00
07	1.15	Supplying and fixing of following sizes FRLS PVC conduit (heavy duty, thickness of pipe should be 2 mm) along with accessories in concealed complete as per specification and IS: 9537 (2000 Part 5)							
	1.15.2	25 mm	Mtr	75.00	1800.00	60.00	1860.00	53.00	98580.00
08	3.11	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, multi strand wire in the existing surface/ concealed, FRLS PVC conduit/ PVC casing capping as per specification.							
	3.11.3	3 x 1.5 sq. mm	Mtr	40.00	960.00	00.00	960.00	37.00	35520.00
	3.11.11	1 x 2.5 sq. mm	Mtr	40.00	960.00	00.00	960.00	22.00	21120.00
09	3.13	Supplying and drawing following grade co-axial <b>TV wire</b> FRLS PVC insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface/ concealed Steel/PVC conduit as per specification and IS: 694 (2010)							
	3.13.1	RG-6 grade	Mtr	40.00	960.00	00.00	960.00	14.00	13440.00
10	4.4	Supplying and fixing following size/ <b>modules, GI box</b> along with modular base & cover plate for modular switches in recess etc as per specification.							
	4.4.1	75 mm X 75 mm (1/2 Module)	Each	02	48	00	48	99.00	4752.00
	4.4.2	100 mm X 75 mm (3 Module)	Each	02	48	00	48	129.00	6192.00
11	5.4	Supplying and fixing following modular switch, socket, other accessories on the existing modular plate & switch box including connections but excluding modular plate etc. as per specification.							
	5.4.3	Bell push	Each	01	24	00	24	80.00	1920.00
	5.4.4	15/16 amp switch	Each	02	48	00	48	89.00	4272.00
	5.4.6	6 pin 15/16 amp socket outlet	Each	02	48	00	48	120.00	5760.00
	5.4.9	Fan regulator (Two module size) electronic stepped type moving all rounds	Each	03	72	00	72	223.00	16056.00
	5.4.11	Plug Top (Deluxe type) 3 pin 16 Amps (For power plug).	Each	02	48	00	48	85.00	4080.00
	5.4.16	T.V. antenna socket outlet	Each	02	48	00	48	74.00	3552.00
	5.4.18	25/32 amp A.C. Starter switch	Each	02	48	00	48	246.00	11808.00
	5.4.22	Batten/ angle holder	Each	04	96	00	96	41.00	3936.00
	5.4.23	Blanking plate	Each	16	384	00	384	28.00	10752.00

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S.No.	SOR Item No.	PARTICULARS	UNIT	Qty			Total Qty	RATE (in Rs.)	AMOUNT (in Rs.)
				Each Unit	24 Unit (1 Block)	Common Service (1 Block)			
A	B	C	D	E	F	G	H (F+G)	I	J (H x I)
12	5.6	Providing and fixing composite unit for computer points having modular type 1 No 6 pin 16 amp socket outlet, 1 No 16 amp switch, 3 Nos 3 pin 6 amp socket outlets, 3 Nos 6 amp switches, suitable G.I. box, base and cover plates, earthing the sockets and switch box including etc. as per specification.	Each	02	48	00	48	816.00	39168.00
13	5.9	Providing and fixing round/ hexagonal <b>fan box</b> (125mm dia) depth 75mm (max.) with 12mm dia steel bar hook, 1.6mm thick MS sheet cover, in RCC slab etc. as per specification.	Each	03	72	00	72	42.00	3024.00
14	6.12	Providing and fixing phenolic laminated sheet cover of 180 mm dia 3 mm thick on the <b>fan box</b> etc. as per specification. (If provided at the time of installation of ceiling fan)	Each	03	72	00	72	56.00	4032.00
15	9.2	Supplying and fixing on surface/ recess following way, 240 volts <b>SP&amp;N MCB distribution board</b> of sheet steel phosphatized and powder painted complete with tinned copper busbar, neutral busbar, earth bar, din bar, detachable gland plate, including interconnections, earthing etc. as per specification. (But without MCB/RCCB/Isolator)							
	9.2.5	4 way, Double door	Each	00	00	01	01	784.00	784.00
16	9.4	Supplying and fixing on surface/ recess horizontal type following way, <b>415 volts, TPN MCB distribution board</b> of sheet steel phosphatized and powder painted, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, detachable gland plate, including inter connections, earthing etc. as per specification. (But without MCB/RCCB/Isolator).							
	9.4.4	4 way Double door	Each	01	24	00	24	1716.00	41184.00
17	9.11	Supplying and fixing <b>SP MCB</b> , 240 volts, 'C' curve, suitable for inductive load in the existing MCB DB complete with connections, testing and commissioning etc. as per specification.							
	9.11.2	6 amps to 32 amps	Each	12	288	02	290	148.00	42920.00
18	9.12	Supplying and fixing <b>DP MCB</b> , 240 volts, 'C' curve, suitable for lighting and other loads in the existing MCB DB complete with connections, testing and commissioning etc. as per specification.							
	9.12.2	6 amps to 32 amps	Each	00	00	01	01	411.00	411.00
19	9.16	Supplying and fixing <b>TP&amp;N MCB</b> , 440 volts, 'C' curve, suitable for lighting and other load sin the existing MCB DB complete with connections, testing and commissioning etc. as perspecification.							
	9.16.3	40 Amp	Each	01	24	00	24	1275.00	30600.00
<b>Total (A)</b>								<b>Rs.</b>	<b>2204373.00</b>

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S.No.	SOR Item No.	PARTICULARS	UNIT	Qty			Total Qty	RATE (in Rs.)	AMOUNT (in Rs.)
				Each Unit	24 Unit (1 Block)	Common Service (1 Block)			
A	B	C	D	E	F	G	H (F+G)	I	J (H x I)
<b>Fixtures</b>									
20	5.7	Supplying and fixing call bell/ buzzer suitable for single phase, 230 volts A.C. supply, complete as per specification.							
	5.7.2	Deluxe	Each	01	24	00	24	107.00	2568.00
21	6.1	Supplying, installation, testing and commissioning of following sizes <b>ceiling fan</b> including wiring the down rods of standard length up to 30 cm with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable, earthing etc. complete as required. P.F. should be greater than 0.9, with BEE Star rating from 3 star and above, IS: 374:2019 including all amendments.							
	6.1.3	1200 mm sweep	Each	02	48	00	48	1697.00	81456.00
22	6.6	Supplying, installation, testing and commissioning of following sizes heavy duty (continuous running) <b>1400 rpm exhaust fan</b> in existing opening in wall including earthing etc. complete as per specification. P.F. should be greater than 0.9							
	6.6.1	300 mm sweep	Each	01	24	00	24	2446.00	58704.00
23	6.8	Supplying, installation, testing and commissioning of following sizes <b>fancy exhaust fan</b> having built in lovers in existing opening in wall including earthing etc. complete as per specification. P.F. should be greater than 0.9							
	6.8.2	300 mm sweep	Each	02	48	00	48	1270.00	60960.00
24	6.19	Supplying, Installation, testing and commissioning of following <b>LED tube light fitting</b> including batten with Electronic Driver Heat sink Capacitor complete with all other accessories on surface/in false ceiling, including connection, earthing etc complete as per specification and IP20.P.F. should be greater than 0.9 LED chip efficacy ratio $\geq 100$ Lumens/watt.							
	6.19.2	10 watt {2 feet}	Each	03	72	00	72	351.00	25272.00
	6.19.3	18/20 watt (4 feet)	Each	07	168	22	190	443.00	84170.00
25	6.27	Supplying, installation, testing and commissioning of following <b>LED Bulk Head fitting</b> complete with Electronic Driver Heat sink Capacitor and all other accessories, including connection, earthing etc complete as per specification and P.F. should be greater than 0.9. LED chip efficacy ratio $\geq 100$ lumens /watt. IP65							
	6.27.1	10 watt	Each	00	00	15	15	1140.00	17100.00
26	6.28	Supplying, installation, testing and commissioning of following 230/250 volts <b>LED street light fitting</b> with all accessories like driver, heat sink made of die cast aluminium with IP66 protection and 15 KV surge protection on pole bracket, including connection, earthing etc complete as per specification and P.F. should be greater than 0.9. LED chip efficacy ratio $\geq 120$ lumens/watt							

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S.No.	SOR Item No.	PARTICULARS	UNIT	Qty			Total Qty	RATE (in Rs.)	AMOUNT (in Rs.)
				Each Unit	24 Unit (1 Block)	Common Service (1 Block)			
A	B	C	D	E	F	G	H (F+G)	I	J (H x I)
	6.28.6	45 watt	Each	00	00	01	01	2729.00	2729.00
		Total (B)						Rs.	332959.00
		Grand Total (A+B)						Rs.	2537332.00

**ESTIMATE OF LIFT WORK FOR PROPOSED REDEVELOPMENT  
WORK OF 01 Nos. G TYPE (S+6) & 01 Nos. H TYPE (S+6) AT KAILASH  
NAGAR, NH-53, DISTT.- RAJNANDGAON (C.G.)**

S.No.	SOR Item No.	PARTICULARS	UNIT	Qty	RATE (in Rs.)	AMOUNT (in Rs.)
01	22.21	<p>Supply, installation, testing &amp; commissioning and putting into operation and final testing of MACHINE ROOM LESS TYPE automatic lift complete with ARD and all standard equipments, accessories and control equipments as per manufacturer's design and as per CPWD specification (Part III LIFTS) 1981 and fulfilling following requirements on turn key basis.</p> <p>A. Type : Passenger lift  B. Load : 16 passenger/ 1088 Kg  C. Speed : 1.5 metre per second  D. Contol : AC2  E. Operation : Microprosser based simplex collective selective with/without lift attendant  F. Total rise : About 9 mtrs  G. Landings : 4 All on same side  H. Floors served : G,1,2,3  I. Signals : Digital car position indicator, car travel direction indicator in car &amp; at all landings  J. Lift shaft size : About 2500 mm width X 2100 mm depth, finished with plaster (size as per actual site conditions)  K. Lift car size : About 2000 mm width X 1300 mm depth  L. Car entrance : Minimum Clear opening 1000 mm wide X 2000 mm high protected with car door</p> <p>M. Landing entrance: Clear opening 1000 mm wide X 2000 mm high protected with landing door  N. Car door : Stainless steel two pannel telescopic/centre opening flush type  O. Landing door : Stainless steel two pannel telescopic/centre opening flush type  P. Door operation: Automatic electric power operated door with infra red protection  Q. Car interior : Stainless steel pannel with hair line/ mirror/moon rock finish on all sides  R. Car floor : Hard wood covered with PVC/ marbled tiles  S. Car ceiling &amp; lighting : Fluorscent lighting concealed by suspended false ceiling with plain acrylic diffuser. The frame of suspended false ceiling shall be of powder coated aluminium  T. Car ventilation : Pressure fan with anodised aluminium grill</p>				

S.No.	SOR Item No.	PARTICULARS	UNIT	Qty	RATE (in Rs.)	AMOUNT (in Rs.)
		M. Landing entrance: Clear opening 1000 mm wide X 2000 mm high protected with landing door N. Car door : Stainless steel two pannel telescopic/centre opening flush type O. Landing door : Stainless steel two pannel telescopic/centre opening flush type P. Door operation: Automatic electric power operated door with infra red protection Q. Car interior : Stainless steel pannel with hair line/ mirror/moon rock finish on all sides R. Car floor : Hard wood covered with PVC/ marblax tiles S. Car ceiling & lighting : Fluorscent lighting concealed by suspended false ceiling with plain acrylic diffuser. The frame of suspended false ceiling shall be of powder coated aluminium T. Car ventilation : Pressure fan with anodised aluminium grill				
		U. Emergency lighting in car: Battery operated Emergency lighting in the lift car V. Intercom system : Battery operated Intercom system in lift car, machine room and control room W. Emergency alarm : Battery operated alarm bell system in lift car & contol room X. Position of machine room: Directly above the lift shaft Y. Electric power supply : AC 415 Volts 3 phase 50 Hz terminated in machine room Z. Fire man switch : Fire man switch at main landing termanal	JOB	02	2720368.00	5440736.00
02	22.22	Add or deduct for providing all additional parts/ equipments or for enhancing the capacity of parts/ equipments in MACHINE ROOM LESS TYPE automatic lift for <b>16 persons</b> , speed 1.5 m/sec for every additional floor beyond initial G+3 floors.	Each additio nal floor	06	113349.00	680094.00

## PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S.No.	SOR Item No.	PARTICULARS	UNIT	Qty	RATE ( in Rs.)	AMOUNT (in Rs.)
03	12.19	Providing maintenance free <b>earthing</b> with following size GI pipe including making bore pit of minimum 150mm dia, providing and laying approved make Earthing Electrode of Pipe-in-Pipe technology as per IS 3043-1987 made of corrosion free G.I. Pipes having outer pipe of 80mm dia and inner pipe of 50mm dia and filling with specified qty highly conductive compound around pipe and above that with soft soil in bore pit complete and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. as per specification:				
	12.19.2	With 2 metre long GI Pipes and 25 kg back filling compound.	Each	04	8222.00	32888.00
04	12.16	Providing and fixing <b>25 mm X 5 mm G.I. strip</b> on surface or in recess for connections etc. as per specification.	Mtr.	20.00	115.00	2300.00
05	12.17	Providing and fixing <b>6 SWG dia G.I. wire</b> on surface or in recess for loop earthing as per specification.	Mtr.	80.00	38.00	3040.00
06	9.4	Supplying and fixing on surface/ recess horizontal type following way, 415 volts, <b>TPN MCB distribution board</b> of sheet steel phosphatized and powder painted, complete with tinned copper busbar, neutral busbar, earth bar, din bar, detachable gland plate, including interconnections, earthing etc. as per specification. (But without MCB / RCCB / Isolator)				
	9.4.5	6 way Double door	Each	02	2038.00	4076.00
07	9.11	Supplying and fixing <b>SP MCB</b> , 240 volts, 'C' curve, suitable for inductive load in the existing MCB DB complete with connections, testing and commissioning etc. as per specification.				
.	9.11.2	6 amps to 32 amps	Each	04	148.00	592.00
08	9.13	Supplying and fixing <b>DP MCB</b> , 240 volts, 'D' curve, suitable for inductive/ motor load in the existing MCB DB complete with connections, testing and commissioning etc. as per specification.				
	9.13.3	40 amps	Each	02	698.00	1396.00

## PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S.No.	SOR Item No.	PARTICULARS	UNIT	Qty	RATE ( in Rs.)	AMOUNT (in Rs.)
09	9.16	Supplying and fixing <b>TP&amp;N MCB</b> , 440 volts, 'C' curve, suitable for lighting and other loads in the existing MCB DB complete with connections, testing and commissioning etc. as per specification.				
	9.16.5	63 amps	Each	02	1316.00	2632.00
10	9.27	Supplying and fixing Low voltage (class -II) surge protection device ( <b>SPD</b> ) <b>TP&amp;N</b> 440 volts, in the existing MCB DB complete with connections, testing and commissioning etc. as per specification.	Each	02	8251.00	16502.00
11	9.21	Supplying and fixing following rating, double pole, (single phase and neutral), 240 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as per specification.				
	9.21.2	40 amps	Each	02	1776.00	3552.00
12	9.22	Supplying and fixing following rating, four pole, (three phase and neutral), 415 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as per specification.				
	9.22.3	63 amps	Each	02	2329.00	4658.00
13	6.27	Supplying, installation, testing and commissioning of following <b>LED Bulk Head fitting</b> complete with Electronic Driver Heat sink Capacitor and all other accessories, including connection, earthing etc complete as per specification and P.F. should be greater than 0.9. LED chip efficacy ratio $\geq$ 100 lumens /watt. IP65				
	6.27.1	10 watt	Each	16	1140.00	18240.00
14	1.1	Wiring for <b>light/ fan/ exhaust fan / call bell point</b> with 3x1.5 sqmm FRLS PVC insulated stranded copper conductor single core wire for phase, neutral and earth in concealed FRLS PVC conduit, with 5/6 amp piano type switch, phenolic laminated sheet, suitable size M.S. box etc as per specification.				

## PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S.No.	SOR Item No.	PARTICULARS	UNIT	Qty	RATE ( in Rs.)	AMOUNT (in Rs.)
	1.1.1	Short Point	Point	16	240.00	3840.00
15	1.13	<b>Extra</b> for providing and fixing light plug point on board in concealed FRLS PVC conduit point wiring with piano type 3 pin 5/6 amp socket outlet and 5/6 amp switch including cost of phenolic laminated sheet and M.S. box etc. as per specification.	Point	16	87.00	1392.00
16	15.14	Supplying and laying following sizes one number FRLS PVC insulated, PVC sheathed, steel armoured, copper conductor control /power cable of 1.1 KV grade on surface/ existing cable tray with 1 mm thick GI saddle as per specification, IS: 9537 (2000, Part 5).				
	15.14.5	4 x 16 sq. mm	Mtr.	200.00	540.00	108000.00
17	15.28	Supplying, fixing and cramping suitable size and all type <b>aluminium ferule/ lugs</b> to following size 1.1 KV grade power cable core / lead, pressed with high pressure cramping tool including connection to switch gear/ MCCB etc as per specification. .				
	15.28.3	16 sq. mm	Each	32.00	19.00	608.00
		<b>Total</b>			<b>Rs.</b>	<b>6324546.00</b>

**ESTIMATE OF LIFT WORK FOR PROPOSED REDEVELOPMENT WORK  
OF WRD OFFICE BUILDING (S+3) AT KAILASH NAGAR, NH-53, DISTT.-  
RAJNANDGAON (C.G.)**

S.No.	SOR Item No.	PARTICULARS	UNIT	Qty	RATE ( in Rs.)	AMOUNT (in Rs.)
01	22.17	<p>Supply, installation, testing &amp; commissitioning and putting into operation and final testing of MACHINE ROOM LESS TYPE automatic lift complete with ARD and all standard equipments, accessories and control equipments as per manufacturer's design and as per CPWD specification (Part III LIFTS) 1981and fulfilling following requirments on turn key basis.</p> <p>A. Type : Passenger lift  B. Load : 8 passenger/ 544 Kg  C. Speed : 1.5 metre per second  D. Contol : AC2  E. Operation : Microprosser based simplex collective selective with/without lift attendant  F. Total rise : About 9 mtrs  G. Landings : 4 All on same side  H. Floors served : G,1,2,3  I. Signals : Digital car position indicator, car travel direction indicator in car &amp; at all landings</p> <p>J. Lift shaft size : About 1400 mm width X 1200 mm depth, finished with plaster (size as per actual site conditions)  K. Lift car size : About 1800 mm width X 1760 mm depth  L. Car entrance : Clear opening 800 mm wide X 2000 mm high protected with car door  M. Landing entrance: Clear opening 800 mm wide X 2000 mm high protected with landing door  N. Car door : Stainless steel two pannel telescopic/centre opening flush type  O. Landing door : Stainless steel two pannel telescopic/centre opening flush type  P. Door operation: Automatic electric power operated door with infra red protection  Q. Car interior : Stainless steel pannel with hair line/ mirror/moon rock finish on all sides  R. Car floor : Hard wood covered with PVC/ marblex tiles  S. Car ceiling &amp; lighting : Fluorscent lighting concealed by suspended false ceiling with plain acrylic diffuser. The frame of suspended false ceiling shall be of powder coated aluminium</p>				

S.No.	SOR Item No.	PARTICULARS	UNIT	Qty	RATE ( in Rs.)	AMOUNT (in Rs.)
		T. Car ventilation : Pressure fan with anodised aluminium grill U. Emergency lighting in car: Battery operated Emergency lighting in the lift car V. Intercom system : Battery operated Intercom system in lift car, machine room and control room W. Emergency alarm : Battery operated alarm bell system in lift car & control room X. Electric power supply : AC 415 Volts 3 phase 50 Hz terminated in machine room Y. Fire man switch : Fire man switch at main landing terminal	JOB	01	1964710.00	1964710.00
02	12.19	Providing maintenance free <b>earthing</b> with following size GI pipe including making bore pit of minimum 150mm dia, providing and laying approved make Earthing Electrode of Pipe-in-Pipe technology as per IS 3043-1987 made of corrosion free G.I. Pipes having outer pipe of 80mm dia and inner pipe of 50mm dia and filling with specified qty highly conductive compound around pipe and above that with soft soil in bore pit complete and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. as per specification:				
	12.19.2	With 2 metre long GI Pipes and 25 kg back filling compound.	Each	02	8222.00	16444.00
03	12.16	Providing and fixing <b>25 mm X 5 mm G.I. strip</b> on surface or in recess for connections etc. as per specification.	Mtr.	10.00	115.00	1150.00
04	12.17	Providing and fixing <b>6 SWG dia G.I. wire</b> on surface or in recess for loop earthing as per specification.	Mtr.	40.00	38.00	1520.00
05	9.4	Supplying and fixing on surface/ recess horizontal type following way, 415 volts, <b>TPN MCB distribution board</b> of sheet steel phosphatized and powder painted, complete with tinned copper busbar, neutral busbar, earth bar, din bar, detachable gland plate, including interconnections, earthing etc. as per specification. (But without MCB / RCCB / Isolator)				
	9.4.5	6 way Double door	Each	01	2038.00	2038.00

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S.No.	SOR Item No.	PARTICULARS	UNIT	Qty	RATE ( in Rs.)	AMOUNT (in Rs.)
06	9.11	Supplying and fixing <b>SP MCB</b> , 240 volts, 'C' curve, suitable for inductive load in the existing MCB DB complete with connections, testing and commissioning etc. as per specification.				
.	9.11.2	6 amps to 32 amps	Each	02	148.00	296.00
07	9.13	Supplying and fixing <b>DP MCB</b> , 240 volts, 'D' curve, suitable for inductive/ motor load in the existing MCB DB complete with connections, testing and commissioning etc. as per specification.				
	9.13.3	40 amps	Each	01	698.00	698.00
08	9.16	Supplying and fixing <b>TP&amp;N MCB</b> , 440 volts, 'C' curve, suitable for lighting and other loads in the existing MCB DB complete with connections, testing and commissioning etc. as per specification.				
	9.16.5	63 amps	Each	01	1316.00	1316.00
09	9.27	Supplying and fixing Low voltage (class -II) surge protection device ( <b>SPD</b> ) <b>TP&amp;N</b> 440 volts, in the existing MCB DB complete with connections, testing and commissioning etc. as per specification.	Each	01	8251.00	8251.00
10	9.21	Supplying and fixing following rating, double pole, (single phase and neutral), 240 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as per specification.				
	9.21.2	40 amps	Each	01	1776.00	1776.00
11	9.22	Supplying and fixing following rating, four pole, (three phase and neutral), 415 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as per specification.				
	9.22.3	63 amps	Each	01	2329.00	2329.00

## PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S.No.	SOR Item No.	PARTICULARS	UNIT	Qty	RATE ( in Rs.)	AMOUNT (in Rs.)
12	6.27	Supplying, installation, testing and commissioning of following <b>LED Bulk Head fitting</b> complete with Electronic Driver Heat sink Capacitor and all other accessories, including connection, earthing etc complete as per specification and P.F. should be greater than 0.9. LED chip efficacy ratio $\geq$ 100 lumens /watt. IP65				
	6.27.1	10 watt	Each	05	1140.00	5700.00
13	1.1	Wiring for <b>light/ fan/ exhaust fan / call bell point</b> with 3x1.5 sqmm FRLS PVC insulated stranded copper conductor single core wire for phase, neutral and earth in concealed FRLS PVC conduit, with 5/6 amp piano type switch, phenolic laminated sheet, suitable size M.S. box etc as per specification.				
	1.1.1	Short Point	Point	05	240.00	1200.00
14	1.13	<b>Extra</b> for providing and fixing light plug point on board in concealed FRLS PVC conduit point wiring with piano type 3 pin 5/6 amp socket outlet and 5/6 amp switch including cost of phenolic laminated sheet and M.S. box etc. as per specification.				
			Point	05	87.00	435.00
15	15.14	Supplying and laying following sizes one number FRLS PVC insulated, PVC sheathed, steel armoured, copper conductor control /power cable of 1.1 KV grade on surface/ existing cable tray with 1 mm thick GI saddle as per specification, IS: 9537 (2000, Part 5).				
	15.14.5	4 x 16 sq. mm	Mtr.	80.00	540.00	43200.00
16	15.28	Supplying, fixing and cramping suitable size and all type <b>aluminium ferule/ lugs</b> to following size 1.1 KV grade power cable core / lead, pressed with high pressure cramping tool including connection to switch gear/ MCCB etc as per specification. .				
	15.28.3	16 sq. mm	Each	16	19.00	304.00
		<b>Total</b>			<b>Rs.</b>	<b>2051367.00</b>

**ESTIMATE FOR SUPPLYING, INSTALLATION, INTEGRATION, TESTING AND COMMISSIONING OF CCTV, PROPOSED REDEVELOPMENT WORK OF WRD OFFICE (S+3) AT KAILASH NAGAR, NH-53, DISTT.- RAJNANDGAON (C.G.)**

S.No.	SOR Item No.	PARTICULARS	UNIT	QTY		RATE ( in Rs.)	AMOUNT (in Rs.)
				Each Unit	Hence for 06 Unit		
A	B	C	D	E	F (E x 6)	G	H (F x G)
01	3.14	Supplying and drawing <b>UTP 4 pair Cat 6 LAN wire</b> in existing surface/ concealed Steel/FRLS PVC conduit as per specification.	Each	150	900	19.00	17100.00
02	27.12	Supplying, installation, testing and commissioing of <b>2 MP Dome Camera</b> weather & dust proof IP based Fixed Lens day/night Camera (IP66) 2 MP CMOS Image Sensor, H.264 triple-stream encoding, WDR (120dB), Day/Night UL CE FCC Certified as per specification.	Each	03	18	5094.00	91692.00
03	27.18	Supplying, installation, testing and commissioing of <b>8 Channel NVR 2 Sata</b> port - Up to 16 channel IP camera input, Max 200 Mbps incoming bandwidth, Smart H.265+/H.265/Smart H.264+/H.264 dual codec decoding, Up to 8MP resolution preview and playback, Support 2 SATA HDDs up to 6 TB each, 2 USB (1 USB 3.0, 1 USB2.0) , 1 HDMI / 1 VGA simultaneous video output ,ONVIF Version 2.4 conformance , Alarm In / out 4/2 , Two way talk 1 Channel Input, 1 Channel Output RCA , 1 RJ-45 port (10/100/1000Mbps), as per specification.	Each	01	06	11194.00	67164.00
04	27.28	Supplying, installation, testing and commissioing of 8 Port Managable PoE Switch- 10/100/1000 8 Port with 2 Giga SFP uplink, L2 Managed PoE switch , Power Budget max 96 W , single port 30 W ,AI Extend , AI VLAN as per specification.	Each	01	06	8959.00	53754.00
05	27.38	Supplying, installation, testing and commissioing of 6 TB Surveillance HDD etc Complete as per required.	Each	02	12	14590.00	175080.00
06	27.45	Supplying, installation, testing and commissioing of 6U Indoor Rack - Wallmount 6U 450D With Front Glass Door Lock & Key 550 6U - loaded with cable manager + PDU + Fan complete as required.	Each	01	06	3507.00	21042.00
07	27.49	Supplying, installation, testing and commissioing of following size <b>LED Monitor, table/wall mount</b> with inbuild speaker minimum 5W x 2,with minimum 1 No of HDMI and USB port including remote control, connecting cable, batteries, and all accessories, connection etc complete as per specification.					
	27.49.2	43 inch	Each	01	06	43178.00	259068.00
08	27.73	Supply, installation and testing for HDMI cable.	Mtr	40.00	240.00	462.00	110880.00
09	Non SOR	Supplying, installation, testing and commissioing of Bulk Connectors for complete <b>CCTV System</b> as per required.	Lot	01	06	5000.00	30000.00
		<b>Total</b>				<b>Rs.</b>	<b>825780.00</b>

**ESTIMATE FOR SUPPLYING, INSTALLATION, INTEGRATION, TESTING AND COMMISSIONING OF CCTV, PROPOSED REDEVELOPMENT WORK OF WRD OFFICE (S+3) AT KAILASH NAGAR, NH-53, DISTT.- RAJNANDGAON (C.G.)**

S.No.	SOR Item No.	PARTICULARS	UNIT	QTY		RATE ( in Rs.)	AMOUNT (in Rs.)
				Each Unit	Hence for 03 Unit		
A	B	C	D	E	F (E x 6)	G	H (F x G)
01	3.14	Supplying and drawing <b>UTP 4 pair Cat 6 LAN wire</b> in existing surface/ concealed Steel/FRLS PVC conduit as per specification.	Each	150	450	19.00	8550.00
02	27.12	Supplying, installation, testing and commissioing of <b>2 MP Dome Camera</b> weather & dust proof IP based Fixed Lens day/night Camera (IP66) 2 MP CMOS Image Sensor, H.264 triple-stream encoding, WDR (120dB), Day/Night UL CE FCC Certified as per specification.	Each	03	09	5094.00	45846.00
03	27.18	Supplying, installation, testing and commissioing of <b>8 Channel NVR 2 Sata</b> port - Up to 16 channel IP camera input, Max 200 Mbps incoming bandwidth, Smart H.265+/H.265/Smart H.264+/H.264 dual codec decoding, Up to 8MP resolution preview and playback, Support 2 SATA HDDs up to 6 TB each, 2 USB (1 USB 3.0, 1 USB2.0) , 1 HDMI / 1 VGA simultaneous video output ,ONVIF Version 2.4 conformance , Alarm In / out 4/2 , Two way talk 1 Channel Input, 1 Channel Output RCA , 1 RJ-45 port (10/100/1000Mbps), as per specification.	Each	01	03	11194.00	33582.00
04	27.28	Supplying, installation, testing and commissioing of 8 Port Managable PoE Switch- 10/100/1000 8 Port with 2 Giga SFP uplink, L2 Managed PoE switch , Power Budget max 96 W , single port 30 W ,AI Extend , AI VLAN as per specification.	Each	01	03	8959.00	26877.00
05	27.38	Supplying, installation, testing and commissioing of 6 TB Surveillance HDD etc Complete as per required.	Each	02	06	14590.00	87540.00
06	27.45	Supplying, installation, testing and commissioing of 6U Indoor Rack - Wallmount 6U 450D With Front Glass Door Lock & Key 550 6U - loaded with cable manager + PDU + Fan complete as required.	Each	01	03	3507.00	10521.00
07	27.49	Supplying, installation, testing and commissioing of following size <b>LED Monitor, table/wall mount</b> with inbuild speaker minimum 5W x 2,with minimum 1 No of HDMI and USB port including remote control, connecting cable, batteries, and all accessories, connection etc complete as per specification.					
	27.49.2	43 inch	Each	01	03	43178.00	129534.00
08	27.73	Supply, installation and testing for HDMI cable.	Mtr	40.00	120.00	462.00	55440.00
09	Non SOR	Supplying, installation, testing and commissioing of Bulk Connectors for complete <b>CCTV System</b> as per required.	Lot	01	06	5000.00	30000.00
		<b>Total</b>				<b>Rs.</b>	<b>427890.00</b>

**ESTIMATE OF LIGHTING ARRESTER WORK FOR PROPOSED  
REDEVELOPMENT WORK OF WRD OFFICE BUILDING (S+3) AT  
KAILASH NAGAR, NH-53, DISTT.- RAJNANDGAON (C.G.)**

S.No.	SOR Item No.	PARTICULARS	UNIT	Qty	RATE ( in Rs.)	AMOUNT (in Rs.)
01	12.8	Providing and fixing 25 mm X 5 mm copper strip on surface or in recess for connection with required neccessary items etc. as per specification.	Mtr.	100.00	528.00	52800.00
		<b>Total (A)</b>			<b>Rs.</b>	<b>52800.00</b>
	<b>Item no.</b>	<b>NON SOR ITEMS (As per Rate Analysis Approved by Head Office Raipur wide letter no.- 615 Dt. 03.03.2015)</b>				
01	7	Supplying, Fixing and Testing of SITC advanced Technology lighting protection Early Streamer Emission (ESE) lighting conductor air termination complete with digital flash counter mounting mast guy wire base plate counter etc as required and as per site engineer incharge.				
	B	63 Mtr. Radius	Each	01	150000.00	150000.00
02	8	Supplying and fixing and testing of maintanance free chemical earthing as per specification.	Each	02	20000.00	40000.00
		<b>Total (B)</b>			<b>Rs.</b>	<b>190000.00</b>
		<b>Grand Total (A+B)</b>			<b>Rs.</b>	<b>242800.00</b>

**ESTIMATE OF DG SET GAD WORK FOR PROPOSED REDEVELOPMENT  
WORK OF 01 Nos. G TYPE (S+6) & 01 Nos. H TYPE (S+6), COMMON  
SERVICES OF LIFT, FIRE FIGHTING, WATER SUPPLY AT KAILASH  
NAGAR, NH-53, DISTT.- RAJNANDGAON (C.G.)**

S.No.	SOR Item No.	PARTICULARS	UNIT	Qty	RATE (in Rs.)	AMOUNT (in Rs.)
01	12.16	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as per specification.	Mtr.	40	115.00	4600.00
02	12.19	Providing maintenance free <b>earthing</b> with following size GI pipe including making bore pit of minimum 150mm dia, providing and laying approved make Earthing Electrode of Pipe-in-Pipe technology as per IS 3043-1987 made of corrosion free G.I. Pipes having outer pipe of 80mm dia and inner pipe of 50mm dia and filling with specified qty highly conductive compound around pipe and above that with soft soil in bore pit complete and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. as per specification:				
	12.19.2	With 2 metre long GI Pipes and 25 kg back filling compound.	Each	04	8222.00	32888.00
03	21.3	Supplying, installation, testing and commissioning of following capacity <b>diesel Generating Set</b> (alternator directly coupled to diesel engine) complete in all respect broadly comprising of following and as per CPCB 2 norms, including following specification. A. Alternator : Self excited, brush less type, of following capacity, 3 phase, 415 volts 50 Hz, 4 pole, AC alternator complete with all accessories. B. Engine : water cooled diesel engine of suitable BHP for rated alternator at 1500 rpm, turbo charged, direct injection type, 4 stroke, 4/6 cylinder including specified size fuel tank of approved design and shape duly calibrated and painted with one coat of primer and two coats of synthetic enameled paint of approved colour, residential type silencer with exhaust MS pipe (upto 2 metre beyond silencer) duly wrapped with asbestos rope of legging of specified quality and specification. C. AMF Panel : Cubical, compartmentalized, AMF panel board with all suitable size power and control contactors, switches, meters and other accessories, internal wiring, connection, inter-connection etc. for trouble free smooth functioning of DG Set complete with battery charger and leads as per specification. D. Base Plate : Common base plate of required size for mounting of engine alternator set fabricated from MS channel and vibration damping arrangement with cushy foot mounting i/c painting etc. as per specification.				

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S.No.	SOR Item No.	PARTICULARS	UNIT	Qty	RATE ( in Rs.)	AMOUNT (in Rs.)
	21.3.7	100 KVA	Set	01	1149451.00	1149451.00
04	21.4	Supplying and spreading hard stone aggregate 25mm size in out door switch yards as per direction of Engineer-in-charge.	Cum	10.92	906.00	9893.52
05	21.5	Providing and erecting floor mounted sand/ water bucket stand for keeping 4 nos. of fire bucket, 1500 mm in length and 900 mm in height made out of 30 X 30 X 4 mm angle iron welded with 4 hooks and duly painted with one coat of zinc cromate primer and 2 coat of synthetic enamel paint of post box red colour etc complete.	Each	01	1469.00	1469.00
06	21.6	Supplying G.I. Fire buckets with round bottom having at least 9 lit. capacity duly painted with one coat of zinc cromate primer and 2 coat of synthetic enamel paint of post box red colour and filled with dry sand and kept on provided wall hook or stand etc complete.	Each	04	340.00	1360.00
07	21.8	Supplying and erecting chain link mesh fencing for electric sub-station switch yard of 2.5 m approx. height from ground level using angle iron size 50 X 50 X 6 mm erected in C.C. foundation 15 X 15 X 40 cm deep at every 2 metre fitted with flat iron support of size 25 X 6 mm on top, bottom and mid way and chain link mesh 50 x 50 mm aparture and 4 mm dia G.I. hard wire securing and screwing with 2mm dia G.I. wire, G.I. staples, G.I.U-nails or steel pins to the angle iron at every distance of 30 cms, by iron studs complete duly painted with one coats of red oxide and two coats of approved colour paint.	Sqm	65.00	511.00	33215.00
08	21.9	Supplying and erecting MS gate of approx. size 3.0 m (W) x 2.0 m (H) in two laps for electric sub-station switch yard fencing frame made of angle iron size 50 X 50 X 6 mm on top bottom and sides fitted with flat iron support of size 25 X 6 mm on mid way horizontally and square bar of size 8 mm at every 100mm vertically including 3 sets of heavy duty MS hinges and aldrop complete duly painted with one coats of red oxide and two coats of approved colour paint.	Sqm	06	1038.00	6228.00
09	26.17	Supply and erecting following ISI marked Fire extenguishers on wall/ column including erecting bracket etc complete.				

## PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S.No.	SOR Item No.	PARTICULARS	UNIT	Qty	RATE ( in Rs.)	AMOUNT (in Rs.)
	26.17.6	CO2 type Fire Extinguisher ISI marked confirming to IS:15683:2018 Capacity 3Kg. INITIAL CHARGE:- Carbon dioxide used in extinguishers shall comply with IS 15222. FIRE RATING:- 34B. Complete with Hose Assembly and horn, locking arrangement, operation manual, bracket with two screw and sleeve	Each	02	6386.00	12772.00
10	30.8	Providing <b>brick masonry</b> work in cement mortat 1:4 (1 cement : 4 coarse sand) with well burnt clay modular bricks having compressive strength not less than 25kg/sqmm at all levels including scaffolding curing etc complete.	Cum	3.12	3778.00	11787.36
11	30.9	<b>Plastering</b> 15 mm thick on <b>brick</b> work/ CC surface with cement mortar 1:4 (1 cement : 4 fine sand) at all levels.	Sqm	36.40	107.00	3894.80
12	NON SOR	DG SET FOUNDATION & GI COLOUR COATED ROOF SHED	Job	1	100000.00	100000.00
		<b>Total</b>			<b>Rs.</b>	<b>1367558.68</b>
		<b>Say</b>			<b>Rs.</b>	<b>1367559.00</b>

**ESTIMATE OF DG SET GAD WORK FOR PROPOSED REDEVELOPMENT  
WORK OF WRD OFFICE BUILDING (S+3) AT KAILASH NAGAR, NH-53,  
DISTT.- RAJNANDGAON (C.G.)**

S.No.	SOR Item No.	PARTICULARS	UNIT	Qty	RATE ( in Rs.)	AMOUNT (in Rs.)
01	12.16	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as per specification.	Mtr.	40	115.00	4600.00
02	12.19	Providing maintenance free <b>earthing</b> with following size GI pipe including making bore pit of minimum 150mm dia, providing and laying approved make Earthing Electrode of Pipe-in-Pipe technology as per IS 3043-1987 made of corrosion free G.I. Pipes having outer pipe of 80mm dia and inner pipe of 50mm dia and filling with specified qty highly conductive compound around pipe and above that with soft soil in bore pit complete and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. as per specification:				
	12.19.2	With 2 metre long GI Pipes and 25 kg back filling compound.	Each	04	8222.00	32888.00
03	21.3	Supplying, installation, testing and commissioning of following capacity <b>diesel Generating Set</b> (alternator directly coupled to diesel engine) compete in all respect broadly comprising of following and as per CPCB 2 norms, including following specification. A. Alternator : Self excited, brush less type, of following capacity, 3 phase, 415 volts 50 Hz, 4 pole, AC alternator complete with all accessories. B. Engine : water cooled diesel engine of suitable BHP for rated alternator at 1500 rpm, turbo charged, direct injection type, 4 stroke, 4/6 cylinder including specified size fuel tank of approved design and shape duly calibrated and painted with one coat of primer and two coats of synthetic enameled paint of approved colour, residential type silencer with exhaust MS pipe (upto 2 metre beyond silencer) duly wrapped with asbestos rope of legging of specified quality and specification. C. AMF Panel : Cubical, compartmentalized, AMF panel board with all suitable size power and control contactors, switches, meters and other accessories, internal wiring, connection, inter-connection etc. for trouble free smooth functioning of DG Set complete with battery charger and leads as per specification. D. Base Plate : Common base plate of required size for mounting of engine alternator set fabricated from MS channel and vibration damping arrangement with cushy foot mounting i/c painting etc. as per specification.				
	21.3.7	100 KVA	Set	01	1149451.00	1149451.00

## PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S.No.	SOR Item No.	PARTICULARS	UNIT	Qty	RATE ( in Rs.)	AMOUNT (in Rs.)
04	21.4	Supplying and spreading hard stone aggregate 25mm size in out door switch yards as per direction of Engineer-in-charge.	Cum	10.92	906.00	9893.52
05	21.5	Providing and erecting floor mounted sand/ water bucket stand for keeping 4 nos. of fire bucket, 1500 mm in length and 900 mm in height made out of 30 X 30 X 4 mm angle iron welded with 4 hooks and duly painted with one coat of zinc cromate primer and 2 coat of synthetic enamel paint of post box red colour etc complete.	Each	01	1469.00	1469.00
06	21.6	Supplying G.I. Fire buckets with round bottom having at least 9 lit. capacity duly painted with one coat of zinc cromate primer and 2 coat of synthetic enamel paint of post box red colour and filled with dry sand and kept on provided wall hook or stand etc complete.	Each	04	340.00	1360.00
07	21.8	Supplying and erecting chain link mesh fencing for electric sub-station switch yard of 2.5 m approx. height from ground level using angle iron size 50 X 50 X 6 mm erected in C.C. foundation 15 X 15 X 40 cm deep at every 2 metre fitted with flat iron support of size 25 X 6 mm on top, bottom and mid way and chain link mesh 50 x 50 mm aparture and 4 mm dia G.I. hard wire securing and screwing with 2mm dia G.I. wire, G.I. staples, G.I.U-nails or steel pins to the angle iron at every distance of 30 cms, by iron studs complete duly painted with one coats of red oxide and two coats of approved colour paint.	Sqm	65.00	511.00	33215.00
08	21.9	Supplying and erecting MS gate of approx. size 3.0 m (W) x 2.0 m (H) in two laps for electric sub-station switch yard fencing frame made of angle iron size 50 X 50 X 6 mm on top bottom and sides fitted with flat iron support of size 25 X 6 mm on mid way horizontally and square bar of size 8 mm at every 100mm vertically including 3 sets of heavy duty MS hinges and aldrops complete duly painted with one coats of red oxide and two coats of approved colour paint.	Sqm	06	1038.00	6228.00
09	26.17	Supply and erecting following ISI marked Fire extinguishers on wall/ column including erecting bracket etc complete.				

## PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S.No.	SOR Item No.	PARTICULARS	UNIT	Qty	RATE ( in Rs.)	AMOUNT (in Rs.)
	26.17.6	CO2 type Fire Extinguisher ISI marked confirming to IS:15683:2018 Capacity 3Kg. INITIAL CHARGE:- Carbon dioxide used in extinguishers shall comply with IS 15222. FIRE RATING:- 34B. Complete with Hose Assembly and horn, locking arrangement, operation manual, bracket with two screw and sleeve	Each	02	6386.00	12772.00
10	30.8	Providing <b>brick masonry</b> work in cement mortat 1:4 (1 cement : 4 coarse sand) with well burnt clay modular bricks having compressive strength not less than 25kg/sqmm at all levels including scaffolding curing etc complete.	Cum	3.12	3778.00	11787.36
11	30.9	<b>Plastering</b> 15 mm thick on <b>brick</b> work/ CC surface with cement mortar 1:4 (1 cement : 4 fine sand) at all levels.	Sqm	36.40	107.00	3894.80
12	NON SOR	DG SET FOUNDATION & GI COLOUR COATED ROOF SHED	Job	1	100000.00	100000.00
		<b>Total</b>			<b>Rs.</b>	<b>1367558.68</b>
		<b>Say</b>			<b>Rs.</b>	<b>1367559.00</b>

**ESTIMATE OF EXTERNAL ELECTRIFICATION WORK FOR PROPOSED  
REDEVELOPMENT WORK OF WRD OFFICE (S+3) & RESIDENTIAL QUARTER AT  
KAILASH NAGAR, NH-53, DISTT.- RAJNANDGAON (C.G.)**

S. No.	CSR Item No.	Particulars	Unit	Rate	Qty.	Amount
01	3.11	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, <b>multi strand wire</b> in the existing surface/ concealed, FRLS PVC conduit / PVC casing capping as per specification and IS: 694 (2010)				
	3.11.3	3 x 1.5 sq. mm	Metre	37.00	343.00	12691.00
02	6.22	Supplying, installation, testing and commissioning of following 230/250 volts <b>LED BOLLARD fitting</b> cool white/warm white {Colour Temperature 3000/4000/5600/6000 K} with electronic driver, heat sink, capacitor and all other accessories on existing foundation/ pole bracket, including connection, earthing etc complete as per specification. P.F. should be greater than 0.9. LED chip efficacy ratio $\geq 100$ lumens /watt.				
	6.22.1	9 watt	Each	3612.00	20	72240.00
03	6.28	Supplying, installation, testing and commissioning of following 230/250 volts <b>LED street light fitting</b> with all accessories like driver, heat sink made of die cast aluminium with IP 66 protection and 15 KV surge protection on pole bracket, including connection, earthing, Separate housing for driver etc complete as per specification and P.F. should be greater than 0.9. LED chip efficacy ratio $\geq 120$ lumens /watt.				
	6.28.6	45 watt	Each	2729.00	49	133721.00
04	9.11	Supplying and fixing <b>SP MCB</b> , 240 volts, 'C' curve, suitable for inductive load in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
	9.11.2	6 amps to 32 amps	Each	148.00	49	7252.00
05	12.16	Providing and fixing 25 mm X 5 mm <b>G.I. strip</b> on surface or in recess for connections etc. as per specification.	Metre	115.00	280.00	32200.00
06	12.19	Providing maintenance free <b>earthing</b> with following size GI pipe including making bore pit of minimum 150mm dia, providing and laying approved make Earthing Electrode of Pipe-in-Pipe technology as per IS 3043(R 2016) -1987 made of corrosion free G.I. Pipes having outer pipe of 80mm dia and inner pipe of 50mm dia and filling with specified qty highly conductive compound around pipe and above that with soft soil in bore pit complete and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. as per specification:				

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S. No.	CSR Item No.	Particulars	Unit	Rate	Qty.	Amount
	12.19.2	With 2 meter long GI Pipes and 25 kg back filling compound.	Set	8222.00	28	230216.00
07	14.2	Supplying and laying <b>HDPE pipe</b> of 4kg/sqcm in ground below road, path etc at a depth not less than 40 cm and upto 90 cm including excavation, dismantling of road if required and refilling the trench with excavated material, ramming and making the surface good etc. as required.				
	14.2.1	63 mm outer dia	Metre	124.00	492.00	61008.00
	14.2.8	200 mm outer dia	Metre	951.00	50.00	47550.00
08	15.3	Supplying and laying following sizes one number FRLS PVC insulated /XLPE, PVC sheathed, <b>steel armoured</b> , aluminium conductor <b>power cable</b> of 1.1 KV grade in existing RCC/ HUME/ STONEWARE/ METAL/ HDPE pipe as per specification, IS: 1554 (1988, Part 1) & IS: 7098 (1988, Part 1)				
	15.3.22	4 x 10 sq. mm.	Metre	95.00	800.00	76000.00
	15.3.24	4 x 25 sq. mm.	Metre	122.00	100.00	12200.00
09	15.4	Supplying and laying following sizes one number FRLS PVC insulated , PVC sheathed, steel armoured, aluminium conductor power cable of 1.1 KV grade in existing masonry open duct as per specification, IS: 1554 (1988, Part 1) & IS: 7098 (1988, Part 1)				
	15.4.17	3.5 x 150 sq. mm.	Metre	475.00	1000.00	475000.00
10	15.23	Supplying and making end termination with brass compression gland and <b>aluminum lugs</b> for following size armoured aluminum conductor <b>power cable</b> of 1.1 KV grade as per specification.				
	15.23.18	3½ X 150 sq. mm (45 mm)	Each	318.00	32	10176.00
	15.23.23	4 X 10 sq. mm (22 mm)	Each	98.00	02	196.00
	15.23.25	4 X 25 sq. mm (25 mm)	Each	104.00	04	416.00
11	15.28	Supplying, fixing and cramping suitable size and all type aluminium ferule/ lugs to following size 1.1 KV grade <b>power cable</b> core / lead, pressed with <b>high pressure cramping tool</b> including connection to switch gear/ MCCB etc as per specification.				
	15.28.2	10 sq. mm	Each	18.00	328	5904.00
12	16.4	Supplying and laying following sizes one number <b>XLPE</b> , steel armoured, aluminium conductor power cable of 11 KV grade in existing masonry open duct as per specification				
	16.4.8	3 x 240 sq mm	Metre	1837.00	100.00	183700.00

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S. No.	CSR Item No.	Particulars	Unit	Rate	Qty.	Amount
13	16.15	Supplying and making <b>INDOOR</b> cable end jointing with heat shrinkable cable jointing kit including lugs and other jointing materials, for following size of 3 core, XLPE aluminum conductor cable of 11 KV grade as per specification:				
	16.15.8	240 sq. mm	Each	4332.00	04	17328.00
14	16.16	Supplying and making <b>OUTDOOR</b> cable end jointing with heat shrinkable cable jointing kit including lugs and other jointing materials, for following size of 3 core, XLPE aluminum conductor cable of 11 KV grade as per specification:				
	16.16.8	240 sq mm	Each	5767.00	02	11534.00
15	16.17	Supplying and making <b>STRAIGHT THROUGH</b> cable jointing with heat shrinkable cable jointing kit including ferrule and other jointing materials, for following size of 3 core, XLPE aluminum conductor cable of 11 KV grade as per specification:				
	16.17.8	240 sq. mm	Each	10548.00	01	10548.00
16	18.4	Supplying and installing following size of <b>perforated hot dipped Galvanised Iron cable</b> tray (Galvanisation thickness not less than 50 microns) with perforation not more than 17.5% rigidly suspended from the ceiling with G.I. suspenders at a distance not more than 2.5 metre and near every junction/ joint etc complete as per specification.				
	18.4.4	300 mm widthX 50 mm depthX 1.6 mm thickness	Metre	548.00	300.00	164400.00
17	18.8	Supplying and fixing cable <b>route marker</b> with 10 cm X 10 cm X 5 mm thick G.I. plate with inscription there on, bolted /welded to 35 mm X 35 mm X 6 mm angle iron, 60 cm long and fixing the same in ground as required.	Each	309.00	05	1545.00
18	19.7	Supply of hot dipped galvanized (in single dip to minimum 75 micron) <b>octogonal pole</b> made of 3mm thick steel grade E-350 sheet having window and flush cover with locking arrangement at suitable height from base for cable termination block, pole suitably reinforced with welded steel section at window cut section to make the strength of pole unaffected, with following minimum specifications with 4 way terminal connector including 3mm thick anchor plate, 4 nos 20mm dia foundation bolts of EN8 grade, and as per IS 2062 & BS EN: 10025. (designed for wind speed upto 180km/hr, IS: 875 Part 3)				
	19.7.1	6 metre high, dia 130mm at bottom and 90mm at top, base plate size 220x220x12mm, foundation bolts 600mm long	Each	7365.00	41	301965.00

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S. No.	CSR Item No.	Particulars	Unit	Rate	Qty.	Amount
19	19.9	Supply and fixing following street light pole bracket on <b>existing pole</b> made out of 50 mm dia MS "B" class pipe welded to 300 mm long MS pole canopy of suitable dia at a angle of 102.50 including having MS triangular stiffener of size 150 X 50 X 5 mm thick, making arrangement for tightening the bracket with pole by providing suitable size heavy duty nuts and bolts in canopy, painting with one coat of approved steel primer etc. as per specification.				
	19.9.1	Single Over Hang 0.75 meter Long	Each	963.00	33	31779.00
	19.9.5	Double Over Hang 0.75 metre Long	Each	1355.00	08	10840.00
20	19.11	Erection of GI octagonal/ tubular/conical pole on existing cement concrete foundation having grouted bolts and nuts, aligning in true vertical position as per specification.				
	19.11.4	6 metre high	Each	805.00	41	33005.00
21	19.12	Designing and providing suitable RCC foundation in Cement Concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 20 mm nominal size) for 3 mere to 12 metre high GI octagonal pole including steel reinforcement form work, embedding 2 nos 50mm dia PVC pipe for cable entry in each foundation, excavation disposal of surplus soil and curing etc. as per specification.	Cum	5219.00	10.25	53495.00
22	19.13	Providing and making suitable <b>CC pole collar</b> (muffing) in Cement Concrete 1:3:6 (1 cement: 3 coarse sand: 6 graded stone aggregate 20 mm nominal size) of size 0.4 m dia and 0.4 m height from existing CC foundation.	Each	251.00	41	10291.00
23	21.4	Supplying and spreading hard stone aggregate 25mm size in out door switch yards as per direction of Engineer-in-charge.	Cum	906.00	16.00	14496.00
24	20.18	Supplying and fixing approved make 11 KV glazed porcelain <b>pin insulator</b> with G.I. spindle on existing pole bracket with necessary materials as per specification:	Each	226.00	33	7458.00
25	20.19	Supplying and fixing approved make 11 KV glazed porcelain <b>disc type insulator</b> with tension hardware on existing pole / support / cross arm channel as required complete:	Each	1180.00	27	31860.00

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S. No.	CSR Item No.	Particulars	Unit	Rate	Qty.	Amount
26	20.32	Supply and <b>erection standard ACSR</b> (aluminium conductor steel reinforced) confirming to IS 398-1961 of approved make at existing insulator at height upto 14m from ground level including stringing, binding with insulator, jointing wherever required, jumpering, tearing off connection etc complete etc. as per specification including clearing off obstacle if any:				
	20.32.4	Raccoon 6/1/4.09mm dia with calculated aluminium area 78.83 sq.mm , weight 319 kg/ km (198 amps)	Km	66644.00	1.20	79973.00
27	21.5	Providing and erecting floor mounted sand/ water bucket stand for keeping 4 nos. of fire bucket, 1500 mm in length and 900 mm in height made out of 30 X 30 X 4 mm angle iron welded with 4 hooks and duly painted with one coat of zinc cromate primer and 2 coat of synthetic enamel paint of post box red colour etc complete.	Each	1469.00	01	1469.00
28	21.6	Supplying G.I. Fire buckets with round bottom having at least 9 lit. capacity duly painted with one coat of zinc cromate primer and 2 coat of synthetic enamel paint of post box red colour and filled with dry sand and kept on provided wall hook or stand etc complete.	Each	340.00	04	1360.00
29	21.7	Supply and laying SMC chequere plate in size 1m x 1m x 2.5mm (thick) to withstand 22 KV Electrical stress near LT or 11 KV HT panel etc complete.	Sqm	1442.00	10.00	14420.00
30	21.8	Supplying and erecting chain link mesh fencing for electric sub-station switch yard of 2.5 m approx. height from ground level using angle iron size 50 X 50 X 6 mm erected in C.C. foundation 15 X 15 X 40 cm deep at every 2 metre fitted with flat iron support of size 25 X 6 mm on top, bottom and mid way and chain link mesh 50 x 50 mm aparture and 4 mm dia G.I. hard wire securing and screwing with 2mm dia G.I. wire, G.I. staples, G.I.U-nails or steel pins to the angle iron at every distance of 30 cms, by iron studs complete duly painted with one coats of red oxide and two coats of approved colour paint.	Sqm	511.00	130.00	66430.00
31	21.9	Supplying and erecting MS gate of approx. size 3.0 m (W) x 2.0 m (H) in two laps for electric sub-station switch yard fencing frame made of angle iron size 50 X 50 X 6 mm on top bottom and sides fitted with flat iron support of size 25 X 6 mm on mid way horizontally and square bar of size 8 mm at every 100mm vertically including 3 sets of heavy duty MS hinges and aldrop complete duly painted with one coats of red oxide and two coats of approved colour paint.	Sqm	1038.00	12.00	12456.00

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S. No.	CSR Item No.	Particulars	Unit	Rate	Qty.	Amount
32	26.17	Supply and erecting following ISI marked Fire extinguishers on wall/ column including erecting bracket etc complete.				
	26.17.6	CO2 type Fire Extinguisher ISI marked confirming to IS:15683:2018 Capacity 3Kg. INITIAL CHARGE:- Carbon dioxide used in extinguishers shall comply with IS 15222. FIRE RATING:- 34B. Complete with Hose Assembly and horn, locking arrangement, operation manual, bracket with two screw and sleeve.	Each	6386.00	06	38316.00
33	7.19, 7.20, 7.17, 9.1, 7.16, 7.14	<b>METERING PANEL FOR 03 PHASE EM (12 WAY)</b> Design, manufacture, supply and fixing of outdoor type weather proof flush model type cubical <b>distribution panel board.</b>	Each	120000.00	04	480000.00
34	7.19, 7.20, 7.17, 9.1, 7.16, 7.14	CSPDCL & DG Supply Distribution Panel WRD Office & common service of residential	Each	100000.00	02	200000.00
35	30.8	Providing <b>brick masonry</b> work in cement mortat 1:4 (1 cement : 4 coarse sand) with well burnt clay modular bricks having compressive strength not less than 25kg/sqmm at all levels including scaffolding curing etc complete.	Cum	3778.00	3.12	11787.00
36	30.9	<b>Plastering</b> 15 mm thick on <b>brick</b> work/ CC surface with cement mortar 1:4 (1 cement : 4 fine sand) at all levels.	Sqm	107.00	36.40	3895.00
		<b>Total (A)</b>			<b>Rs.</b>	<b>2971120.00</b>
<p align="center"><b>NON SOR</b>  <b>(As per Rate Analysis Approved by AHC vide Letter No. 307 Dt. 05.02.2015 &amp; 615 Dt. 03.03.2015 And DHC vide Letter No. 281 Dt. 29.05.2021 )</b></p>						
37	<b>01</b>	Supply and erection of HT over head line single length supports complete with aligning and keeping it in truly verticle position, including digging of required size filling with M15 grade cement concrete of 0.60 mtr. Dia of required depth around the pole including muffing of 0.50 meter from ground level of 45 mm dia with plaster & 02 coat of approved make weather proof paint as per specification with 20 cm thick base foundation refilling the pit including painting of pole with bitumen paint in bottom and one coat of red oxide and two coats of aluminum paint etc. of approved make the depth of foundation shall be 1/6 of the length of pole.				
	<b>(B)</b>	H Beam 152x152 mm 11 meter long 37.1 kg/Mtr Weight.	Each	26091.00	05	130455.00

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S. No.	CSR Item No.	Particulars	Unit	Rate	Qty.	Amount
38	03	Supplying, Fixing & Testing of 11 KV gang operated air break switch with 3 insulator per phase complete with the operating rod and locking arrangement as required as per specification on existing pole etc. complete (set of three numbers).	Set	10750.00	01	10750.00
39	18	Providing and fixing <b>earthing arrangement</b> for HT/LT poles with GI lead of 115 turns of 50mm dia connection with bracket/cross arm by pole with 4 mm dia GI lead through 15 mm dia 'B' class approved make GI protection pipe of length from bottom of pole to 1.5 meters above ground level packing of charcoal powder and salt as per specification including excavation of pit in all type of soil / rocks etc. complete.	Each	490.00	05	2450.00
40	19	Supplying and fixing 12x16 gauge <b>bar-bed wire</b> ground the existing HT/LT electric pole for safety measures as per IE rules including all staples and all other necessary materials complete as required as per specification.	Mtr.	13.00	25.00	325.00
41	20	Supplying and Fixing of 11 KV <b>Denger board</b> on HT Pole	Each	105.00	05	525.00
42	10	Providing and fixing earthing arrangement with 2.5 Mtr. long 40 mm dia "B" class GI pipe electrode i/c packing of charcoal power and salt as per specification watering pipe 20 mm dia GI with 40 x 20 mm reducer connection etc. complete with refilling the pit as required i/c excavation of pit in all type of soil providing and making brick masonry chamber of suitable size with CI frame and cover funnal etc complete as per IS specification.	Job	1853.00	41	75973.00
43	24	Design, manufacture, supply and fixing of outdoor type floor mounted weather, dust and vermin proof of IP:55 type LT main feeder pillar distribution box made or 16 gauge MS sheet with clamping arrangements, lockable hinged door duly painted on all sides with red oxide, anti rust and corrosion treatment, two coats of synthetic enamel paints or approved made and shade consisting of following fittings.				
		(i) Supplying and fixing 63 Amp TPN MCCB, approved made for incomer connection - 01 Nos.				
		(ii) Supplying and fixing 100 Amp 04 Strip aluminium bus bar supported on epoxy insulator - 01 set.				
		(iii) Supplying and fixing 40 Amp TPN MCCB, approved make for outgoing connection - 03 nos.				
		(iv) Supplying and fixing GI earth terminal - 02 nos.				
		(v) Supplying and fixing 07 lever goderaj padlock with keys - 02 nos.				
		(vi) Light points with switch and holder with 1x28 watt CFL-01 nos.				

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S. No.	CSR Item No.	Particulars	Unit	Rate	Qty.	Amount
		(vii) connecting cables as required.				
		(viii) Providing Energy meter chamber which is suitable for 3 Phase Energy meter - 01 nos.				
		(ix) LED type Indicator - 03 nos, Digital ammeter, Voltmeter & Frequency with selector switch and Protection Fuse-03 nos.	Job	37950.00	01	37950.00
44	6	Design, Fabrication, Supply, Erection, Testing and commissioning of Powder coated, Weather Proof Double door type Feeder pillar fabricated out of 14 guage CRCA sheet steel in cubical, free standing, dust and vermin proof, with reinforcement of suitable size angle iron, channel, T -iron or flats as required. Feeder pillar shall be treated with all anti-corrosive process before painting as per specification. Including connecting cables of required size & length , numbering of incoming & outgoing terminals & feeder pillar i/c suitable size of MS Panel Stand as per Direction of Engineer -In-charge.				
	(A)	<b>INCOMER</b>				
		1No. <b>ABB/Legrand/L&amp;T make</b> 4 Pole 40A TPN MCCB (25 KA)				
		1No. 20A FP Contactor, AOM switch & Timers for 24 Hrs. setting				
	(B)	<b>Metering &amp; Indication</b>				
		1 set of phase indicating lamps (R,Y,B)				
	(C)	<b>BUS-BAR</b>				
		1 Set of <b>ABB/Legrand/Havells make</b> 63A TPN Aluminium Bus Bar with colour coded PVC Sleeves				
	(D)	<b>OUTGOINGS</b>				
		03 Nos. <b>ABB/Legrand/L&amp;T make</b> 20/32A FP MCCB, (25 KA)	Job	58000.00	01	58000.00
45	4	DISTRIBUTION PANNEL BOX FOR EMERGENCY SUPPLY - 05 WAY -Design supply installation and testing of outdoor type (IP 55) distribution panel boards made of 2mm thick crca sheet steel enclousre duly Powder coated free standing floor/wall mounted type.				
	(A)	Incomer: - 01 nos 63 Amp, 36 KA four pole MCCB of approved make with OL/SC relese ON/OFF indication Lamp.				
	(B)	Four pole 100Amp AL bus bar, PVC insulated				
	(C)	Outgoing: - 02 nos 40 Amp 25 KA four pole MCCB of approved make with SC/OL release amd ON/OFF				
	(D)	Supplying and fixing of GI earth terminal - 02 Nos.				
	(E)	Supplying and fixing of 07 lever godrej padlock with keys - 02 Nos.				
	(F)	Connecting cables as required				
	(G)	Led type Indicator - 03 Nos. Digital ammeter, Voltmeter & Frequency with selectcor switch and protection fuse - 03 Nos.				

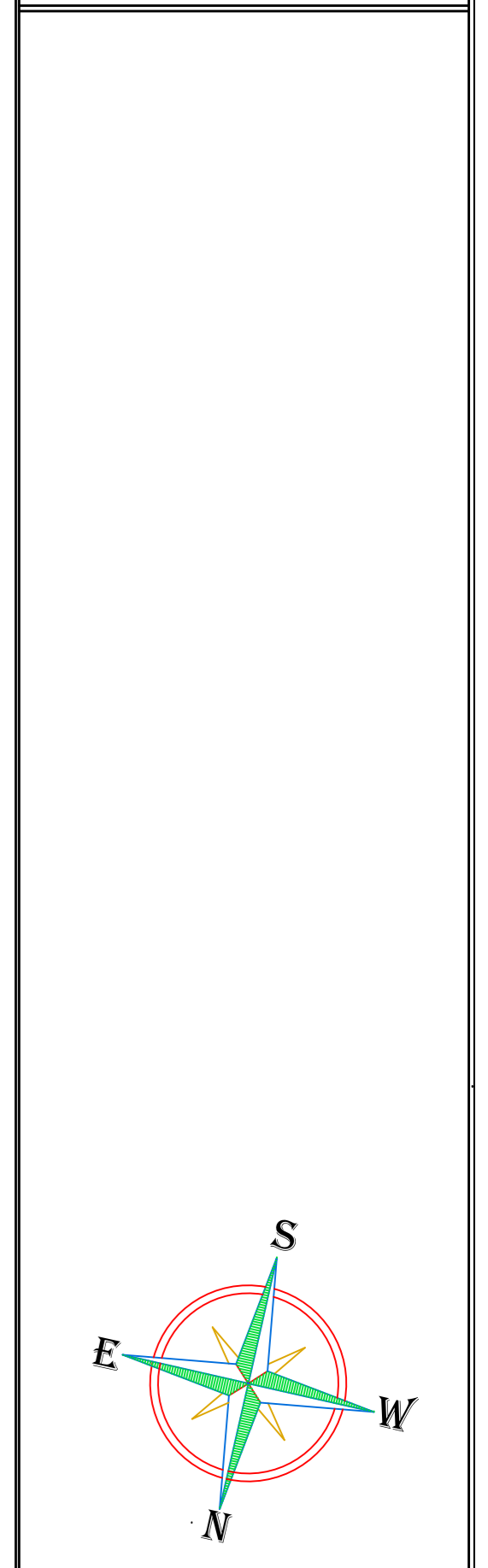
PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

S. No.	CSR Item No.	Particulars	Unit	Rate	Qty.	Amount
	(H)	Providing a locking arrangement of good quality with 3 nos. keys. and Tagging all the incoming & outgoing MCB/MCCB, cable etc. directed by as per site engineer incharge. All the incoming & outgoing cables are properly terminating with required size of lugs.	Job	78029.00	02	156058.00
46		CSS FOUNDATION	Job	50000.00	02	100000.00
		<b>Total (B)</b>			<b>Rs.</b>	<b>572486.00</b>
		<b>Total (A+B)</b>			<b>Rs.</b>	<b>3543606.00</b>
		<b>Grand Total ( C )</b>			<b>Rs.</b>	<b>3543606.00</b>
<b>NON SOR (As per Rate Analysis of Market Rate)</b>						
47	1	Supply, Installation, Testing & Commissioning of <b>Approved Make</b> floor mounted Outdoor type package substation in existing foundation with facility for internal lighting, earthing, padlocks etc. Connection between RMU & transformer will be Required length of (HT 11 KV) 3Nos., 1C X 95 Sqmm. Aluminium cable and connections from transformer to LT ACB sleeved aluminium bus bar. Package Substations will have following equipment.				
		<b>(1)</b> HT side non extensible SF6 Insulated Compact Switch Gear of 12 KV 630 AMP RMU with 02 Nos. LBS and 01 nos VCB for X-mer protection having fault rating (Short Time Rating) of 21KA for 3 Sec including Fault Passage Indicator on each LBS. The operation of LBS enable/SCADA compatible motorized. Self powered relay of make of Siemens (78R45)/Schneider (DPX-VS)/C & S - CSPDR V2-300 must be enclosed her with Epoxy Type CT 40/1A Class 1.0, 5 VA for metering & CT 40/1A CLASS: 5P 10, 50 VA for protection. All Auxiliary contact push on -push off type				
		As required Potential X-mer 11 KV/ $\sqrt{3}$ /110/ $\sqrt{3}$ 100 VA CL : 0.5 As applicable. Battery capacity of 10 A.H. Battery (Minimum) provided with Battery Charger/Power Pack. Fixed type capacitive voltage induction LCD/LED type. Cable termination on bottom side suitable for 300 Sqmm. All Incoming/Outgoing/VCB & LBS must be in separate chamber for safety purpose. Emergency trip button push type, shunt trip/series trip coil-24 VDC and standered manometer. ON, OFF, TRIP indication on the frount mimic on the panel, AB3 card/master trip relay for master trip operation.				
		<b>(2)</b> 11/0.433 Kv 500 KVA Oil Type X-mer having Copper winding A Class insulation with Energy Efficiency Level-02. All the technical parameter of the X-mer as per IS 1180 Level-2 & Latest. (As per Applicable valid IS: if any type of test which is compulsory on the same capacity of X-mer Provided by the manufacture/ Contractor which solo born by Contractor).				

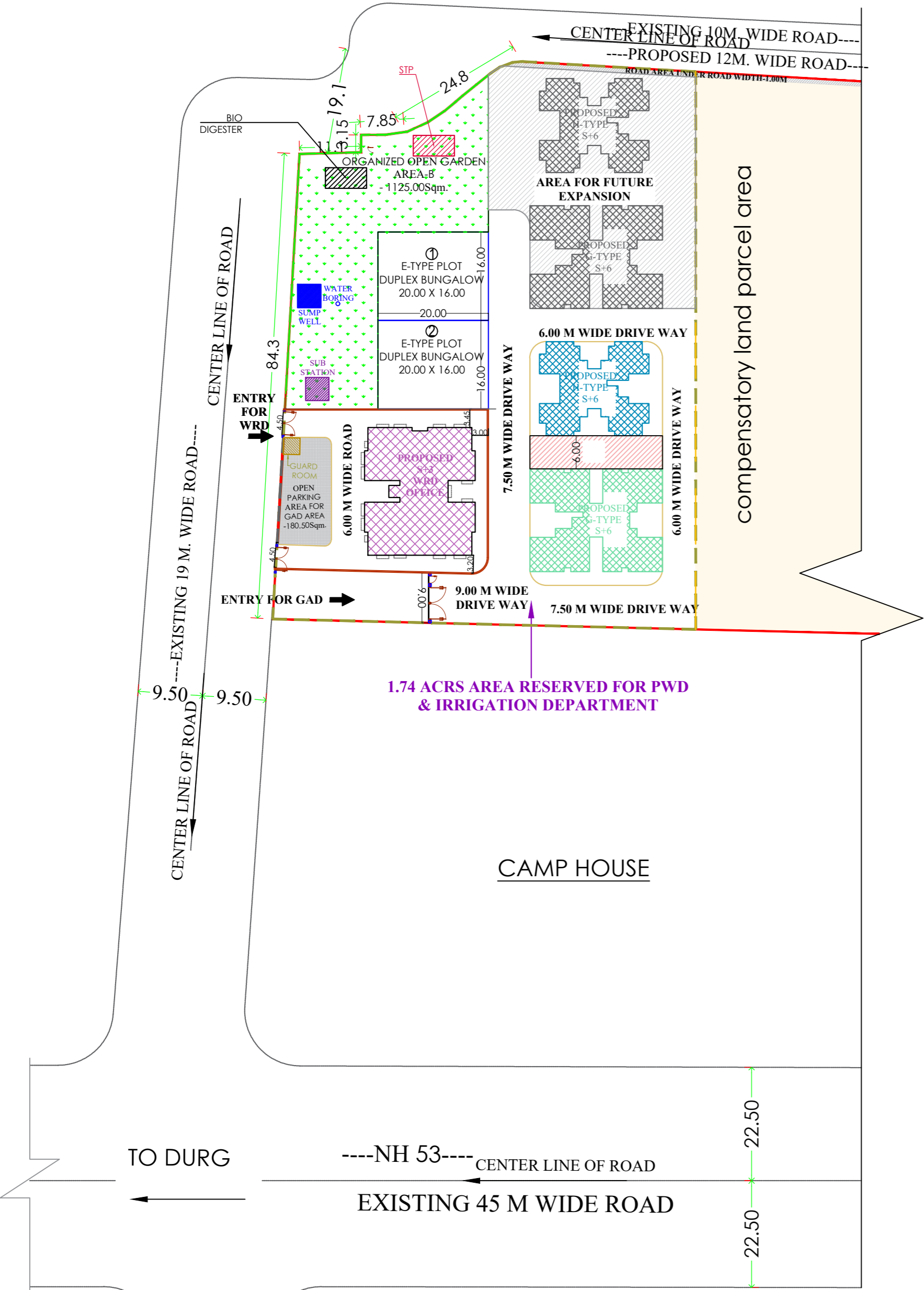
S. No.	CSR Item No.	Particulars	Unit	Rate	Qty.	Amount
		(3) LT Side having 01 No. 800 amp ACB with O/C,E/F protection and having 06 nos 250 amp Capacity 04 Pole MCCB 50KA, ICS=100% ICU, adjustable microprocessor based MCCB. (Make of MCCB L&T/ABB/ Schneider).				
		(4) RMU, Transformer Chamber and LT Chamber shall be IAC tested for 21 KA for 1 Sec. degree of protection for enclosure RMU IP 54, IP3X with front cover opened & IP67 for SF6 level (H.V. Part).				
48		The equipment shall be SCADA compatible having communication port and have a Separate Section of metering with Secure make meter on HT side with in the enclosure have proper locking arrangement, type test must be required for approval of GTP & Before manufacturing the CSS by manufacture. The outer enclosure have CRCA sheet steel of thickness 2mm shall have Minimum IP54 degree of protection for HT & LT switchgear compartment & Minimum IP23 degree of protection for Transformer Compartment. The enclosure exterior shall be powder coated with PP based paint. HT & LT compartment will be provided with the door and pad locking arrangement. Transformer Compartment will be provided with Cover. The Compartment illumination shall be such so that it will appear flush within a compartment with door operated switch shall be provided for HT, Transformer				
		and LT compartment and also in case of transformer door opened in live condition RMU shall be tripped. Lifting (Bucket) Arrangement shall be provided with each PSS. - 01 No. Internal arc fault test as per latest IEC 62271-202 type test report of arcing due to internal fault should be submitted by contractor/manufacture agency without any additional cost of CSS. For VCB-IEC 62271-100, IEC 60694, for Busbar-IEC 129, for LBS-IEC 600129, IEC 60285-1 & for degree of protection-Minimum IP 67, IP2X, IP3X. Relay should be provided according latest IS with MODBUS Protocol (RS 485 port) and as per direction of EIC.	Each	5000000.00	02	10000000.00
		<b>Total (D)</b>			<b>Rs.</b>	<b>10000000.00</b>
		<b>Total (C+D)</b>			<b>Rs.</b>	<b>13543606.00</b>
1		Add: 15% Supervision Charges Payable to CSPDCL			Rs.	2031540.90
2		Add: 18% GST Payable to CSPDCL			Rs.	365677.36
3		Add: System Strengthening Charges Paid to CSPDCL @ 1000/KW (Total 300 KW load)			Rs.	300000.00
4		Add: 18.00% GST Tax Charges on System Strengthening Charges Paid to CSPDCL.			Rs.	54000.00
5		Add: Cost of Transformer Testing Payable to CSPDCL			Rs.	10000.00
6		Add: Testing & Inspection Charges Payable to C.G. Licensing Board			Rs.	10000.00
7		Add: New Service Connection Charges of Street Light, Pump House Payable to CSPDCL			Rs.	200000.00
		<b>Total (E)</b>			<b>Rs.</b>	<b>2971218.26</b>
		<b>Total (C+D+E)</b>			<b>Rs.</b>	<b>16514824.26</b>
S. No.	CSR Item No.	Particulars	Unit	Rate	Qty.	Amount
		<b>Say Rs. In Lacs</b>			<b>Rs.</b>	<b>165.15</b>

## ***ANNEXURE 2***

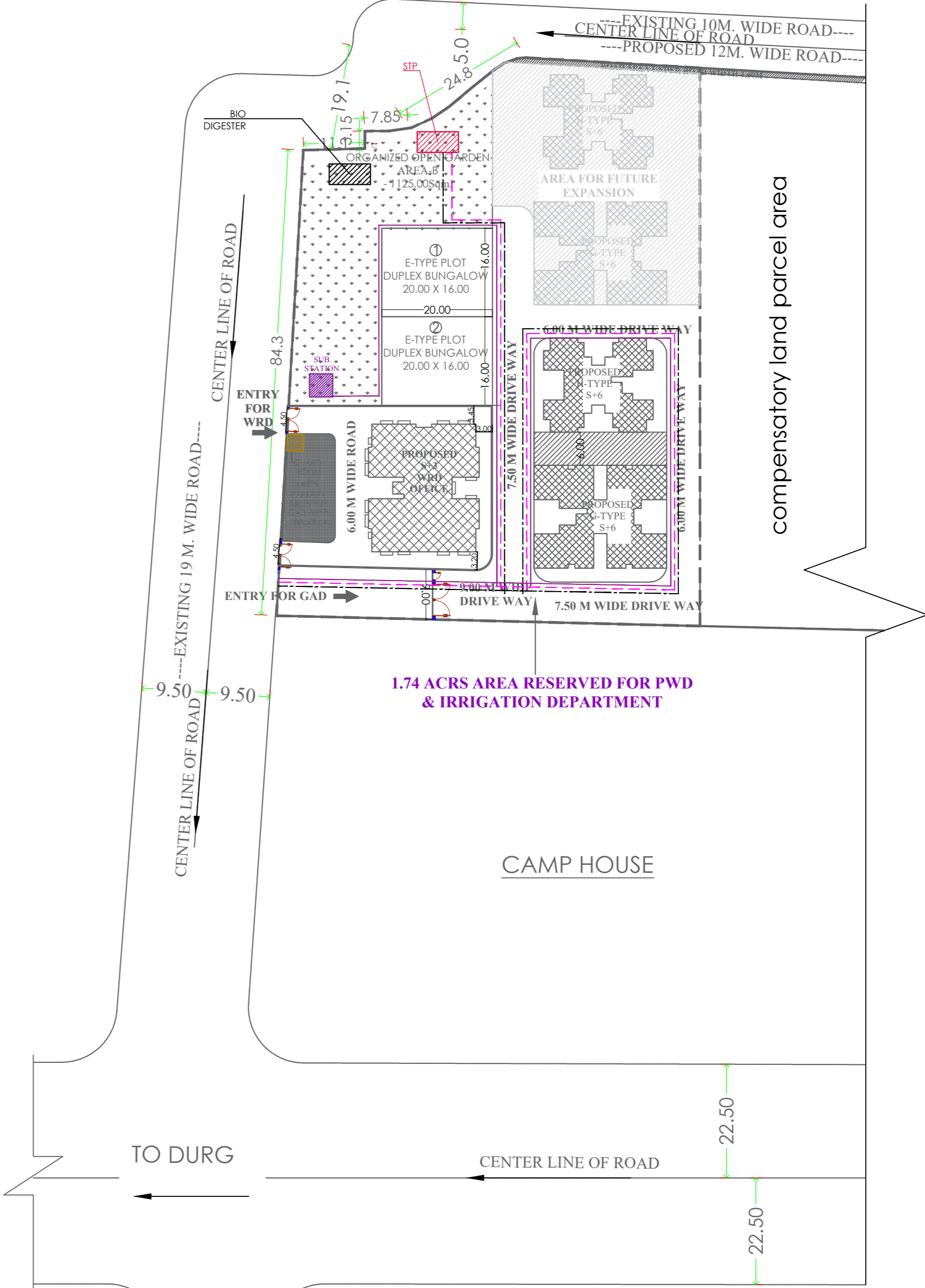
### ***(Drawings)***



SCALE	DATE	DRAWN	CHECKED
	01/08/2025	AR.ANSHUL SENGAR	Ar. Piyush Raj Verma
DRAWING NAME			PAGE NO.
<b>GAD SITE PLAN</b>			191



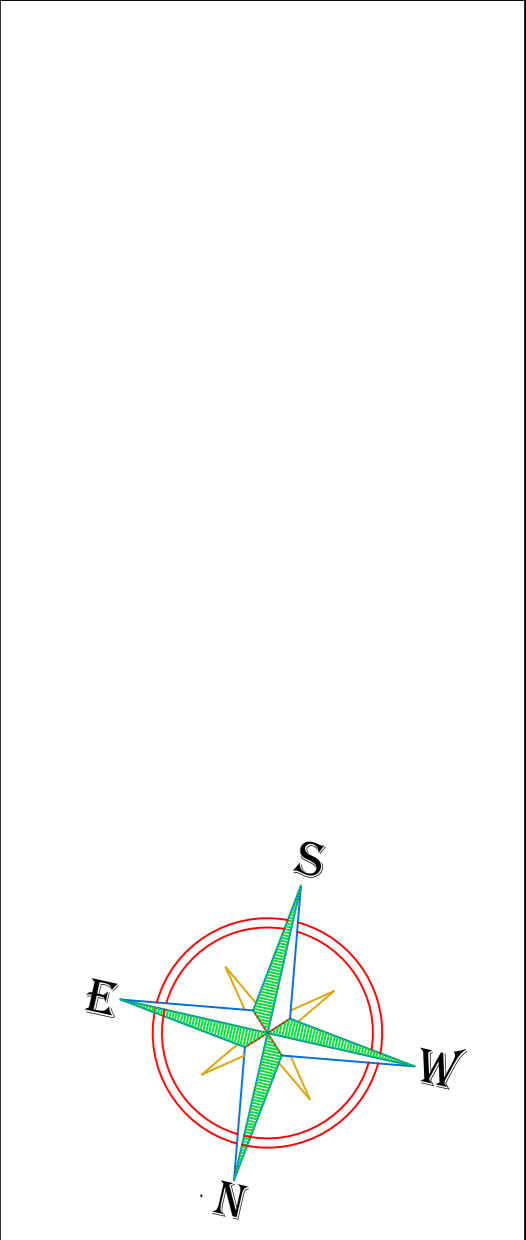
**SITE PLAN**  
**AREA-7041.80SQM.**  
**1.74 acrs**



**SERVICE LAYOUT**  
**PLAN**

**PROJECT:-**  
**REDEVELOPMENT**  
**PROJECT AT KAILASH**  
**NAGAR NH-53**  
**RAJNANDGAON,C.G.**

LEGEND	
ELECTRIC LINE	----
SEWER LINE	----
DRAIN	----
SEPTIC TANK	----
SUMP WELL	----
SUB STATION	----
BIO DIGESTER	----
GUARD ROOM	----

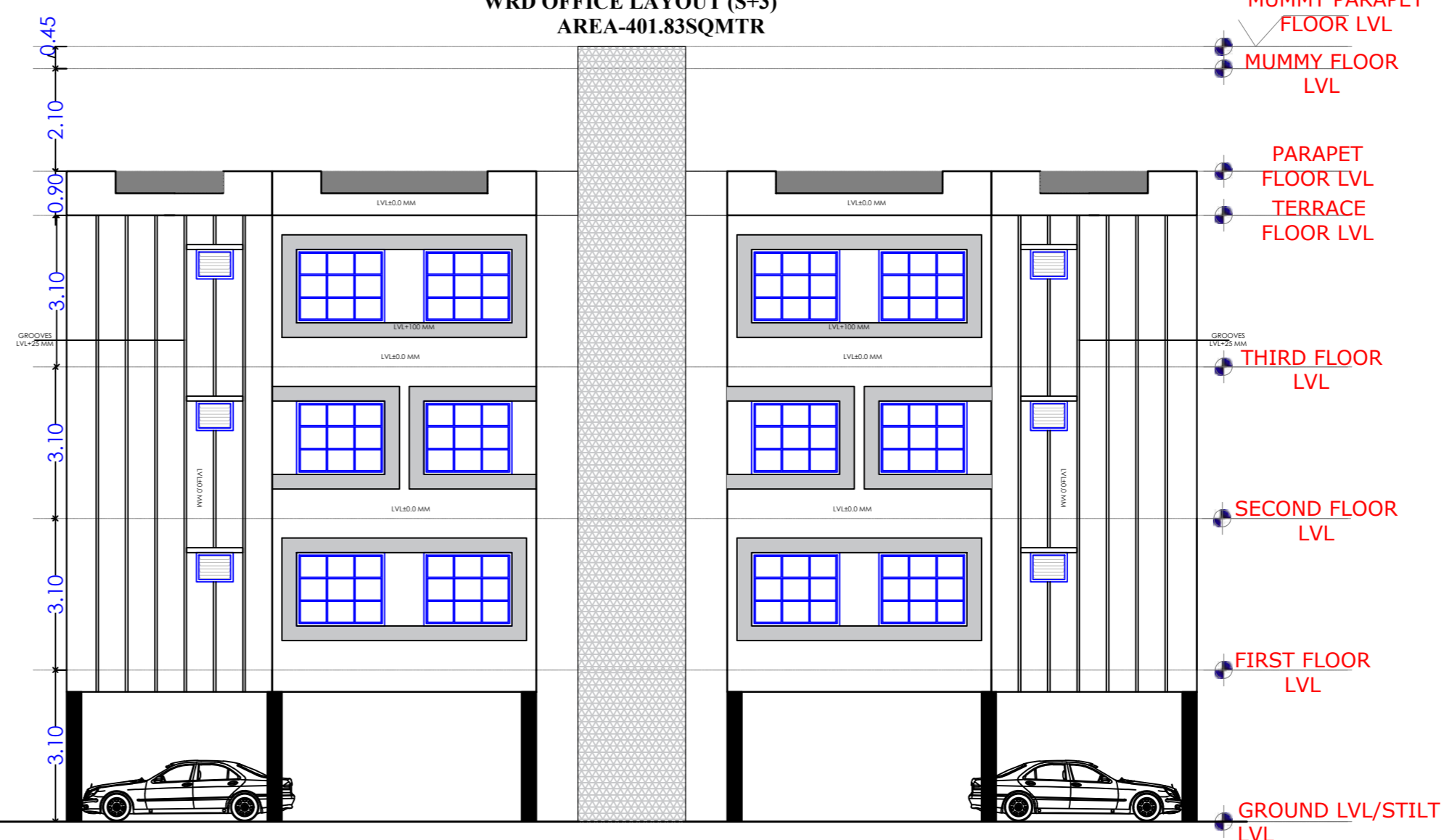
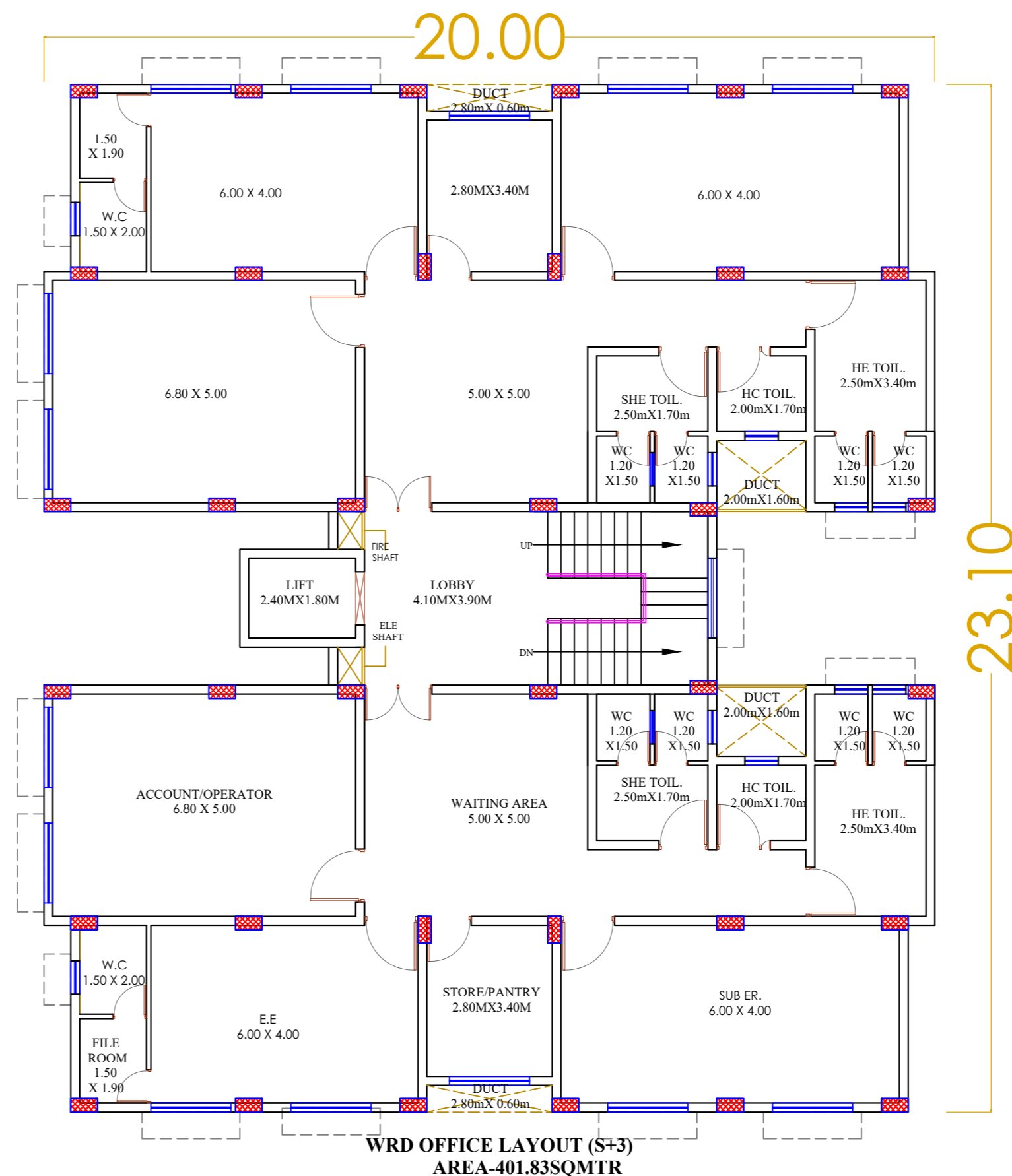
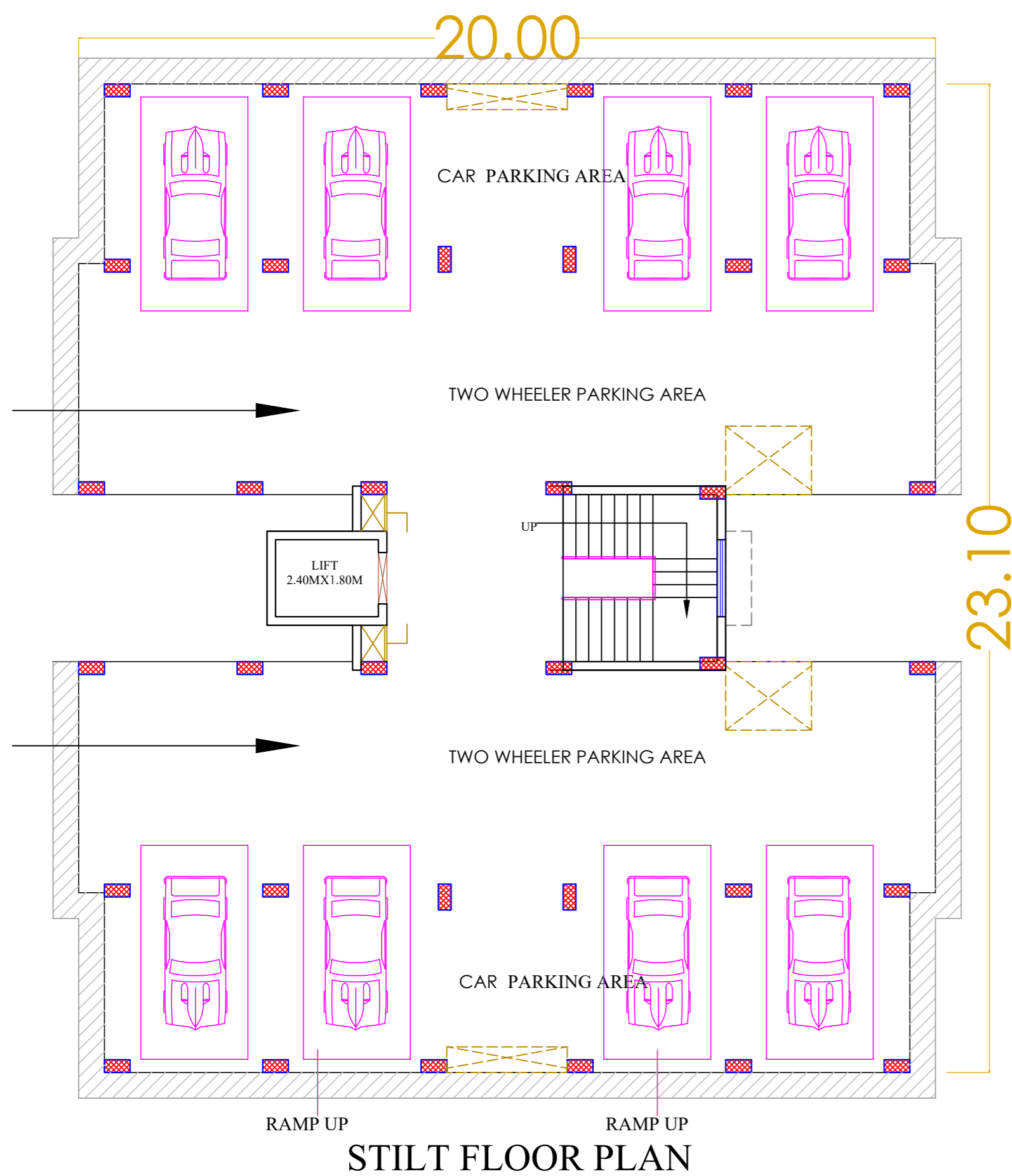


EXEC. ENG. SIGN.	ASST. ENG. SIGN.	SUB ENG. SIGN.
ARCHITECT SIGN.	TOWN PLANNER SIGN.	
CLIENT ADDRESS	Executive Engineer Chhattisgarh Housing Board, (C.G.)	

SCALE	DATE	DRAWN	CHECKED
	01/08/2025	AR.ANSHUL SENGAR	Ar. Piyush Rai Verma
DRAWING NAME			PAGE NO.
GAD SITE PLAN			192

AREA STATEMENT			
WARD OFFICE(S) BELOW			
0 0111 FORD - (1981 Area - Inf. obse. sta. vessel	-	104.46	Sqm.
0 0111 FORD - (1981 Area - Inf. obse. sta. vessel	-	104.46	Sqm.
5711 REAR AREA	-	15.11	Sqm.
TOTAL B.U. OF WARD OFFICE	-	119.50	Sqm.

REQUIRED CAR PARKING FOR WRD OFFICE			
TOTAL MULTI-LEVEL AREA	=	1,595.38	SQW
EQS @ 125 SQW OF BUILT UP AREA	=	8.75	125 CAR
TOTAL REQUIRED CARS	=	9	CARS
PROPOSED PARKING FOR WRD OFFICE			
STILT FLOOR AREA	=	364	SQW
PTR CAR @ 30 SQW FOR STILT FLOOR	=	364	30 CAR
TOTAL CARPOSED CARS	=	12	CAR



## WRD OFFICE ELEVATION

EXEC. ENG.	ASST. ENG. SIGN.	SUB ENG. SIGN.
SIGN.		

ARCHITECT SIGN. \_\_\_\_\_ TOWN PLANNER SIGN. \_\_\_\_\_

CLIENT ADDRESS	<b>Executive Engineer</b> <b>Chhattisgarh Housing</b> <b>Board, (C.G.)</b>
----------------	--

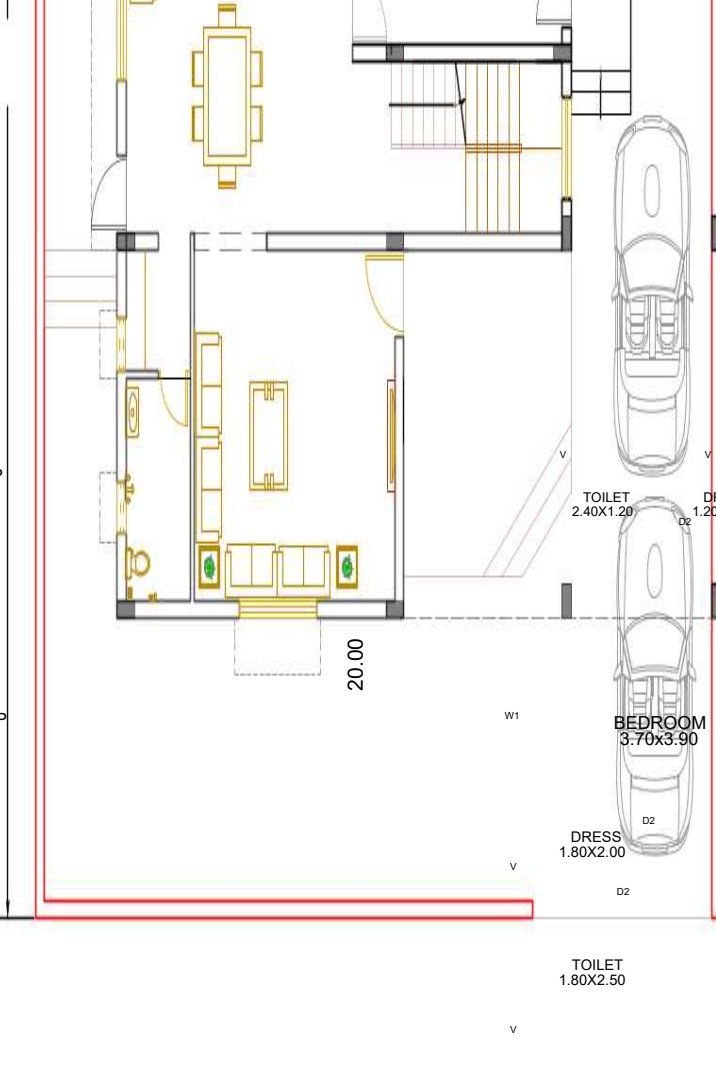
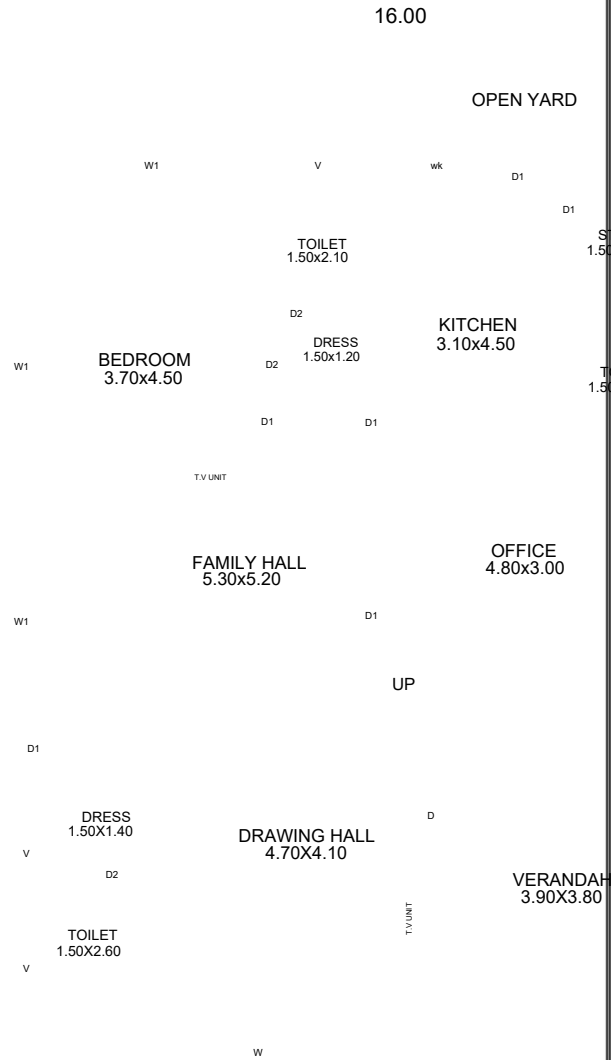
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	25/07/2024	AR.ANSHUL SENGAR	Ar. Piyush Raj Verma
DRAWING NAME			PAGE NO.
<b>WRD OFFICE</b> <b>S+3 =TYPICAL PLAN</b>			193

ANNEXURE 08 - E-TYPE GAD QUARTER DUPLEX BUNGALOW FLOOR PLAN

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON

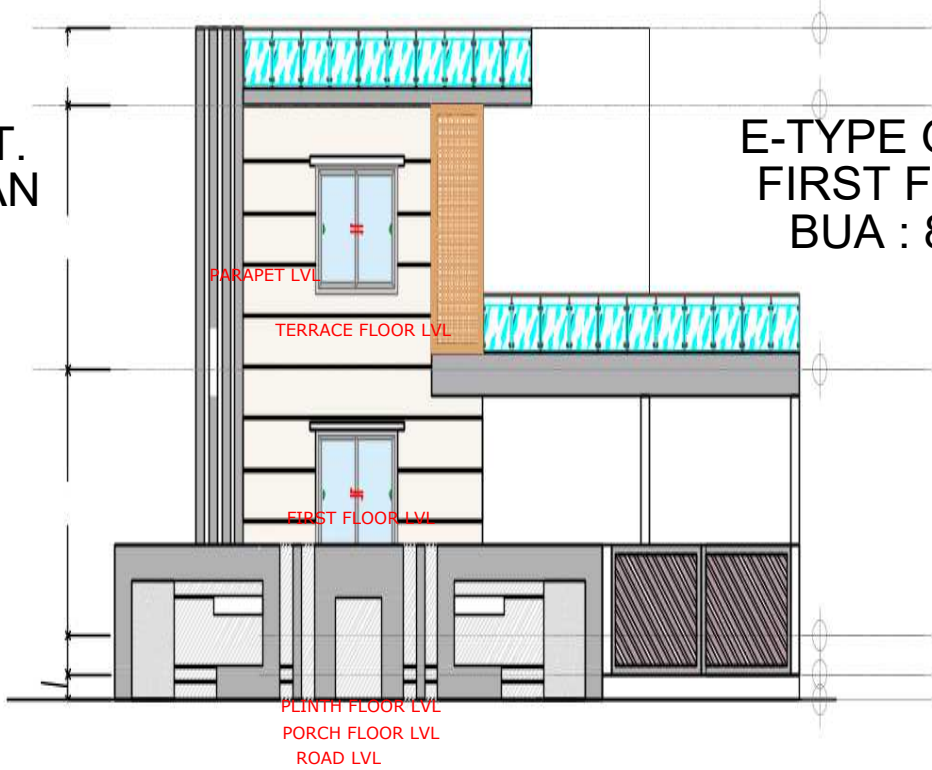
PROJECT:-

REDEVELOPMENT  
PROJECT AT KAILASH  
NAGAR NH-53  
RAJNANDGAON,C.G.



E-TYPE GAD QUART.  
GROUND FLOOR PLAN  
BUA : 160 SQ.M

E-TYPE GAD QUART.  
FIRST FLOOR PLAN  
BUA : 86 SQ.M



ELEVATION

EXEC. ENG. SIGN.

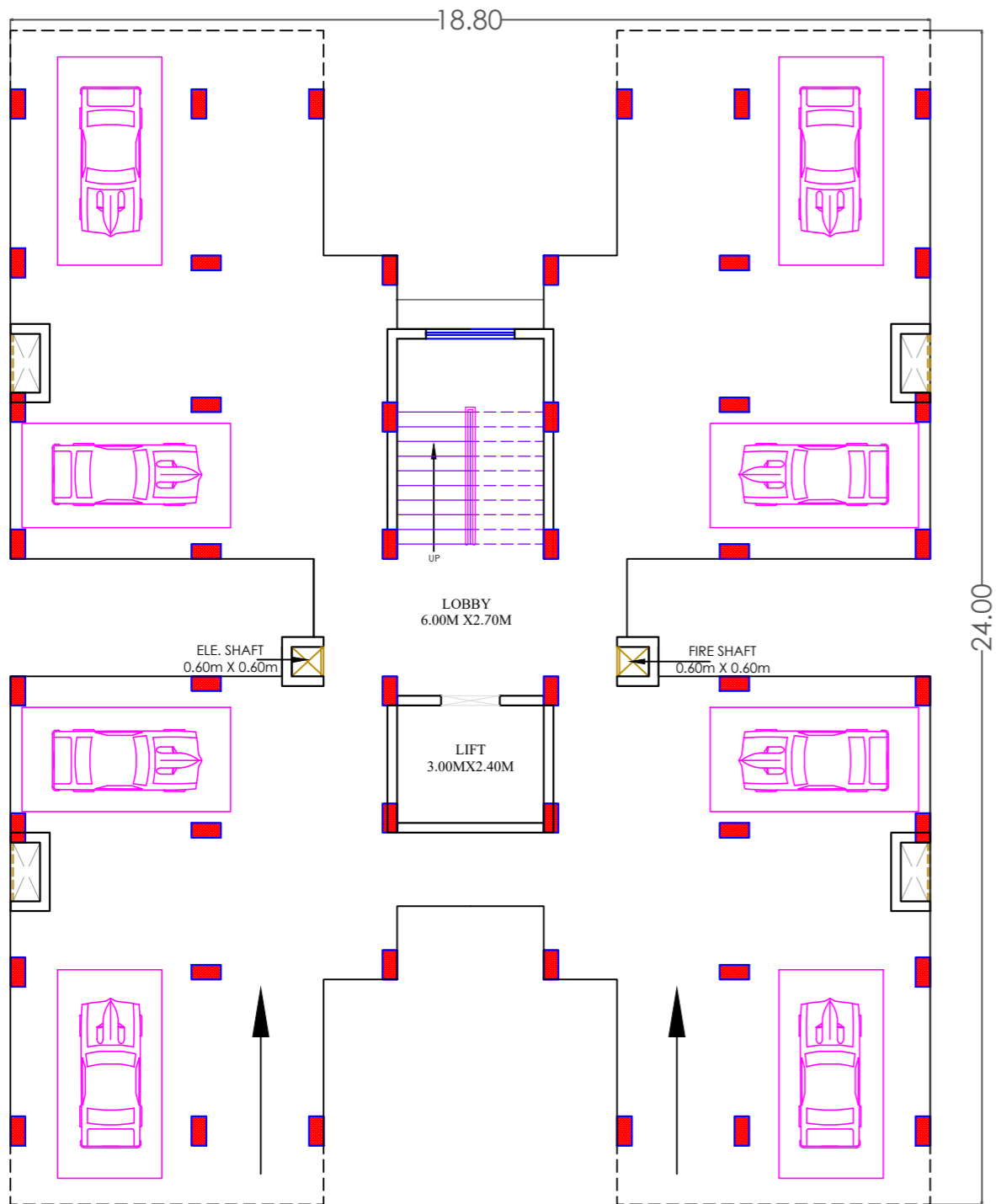
ARCHITECT SIGN. CLIENT ADDRESS

CHECKED DATE

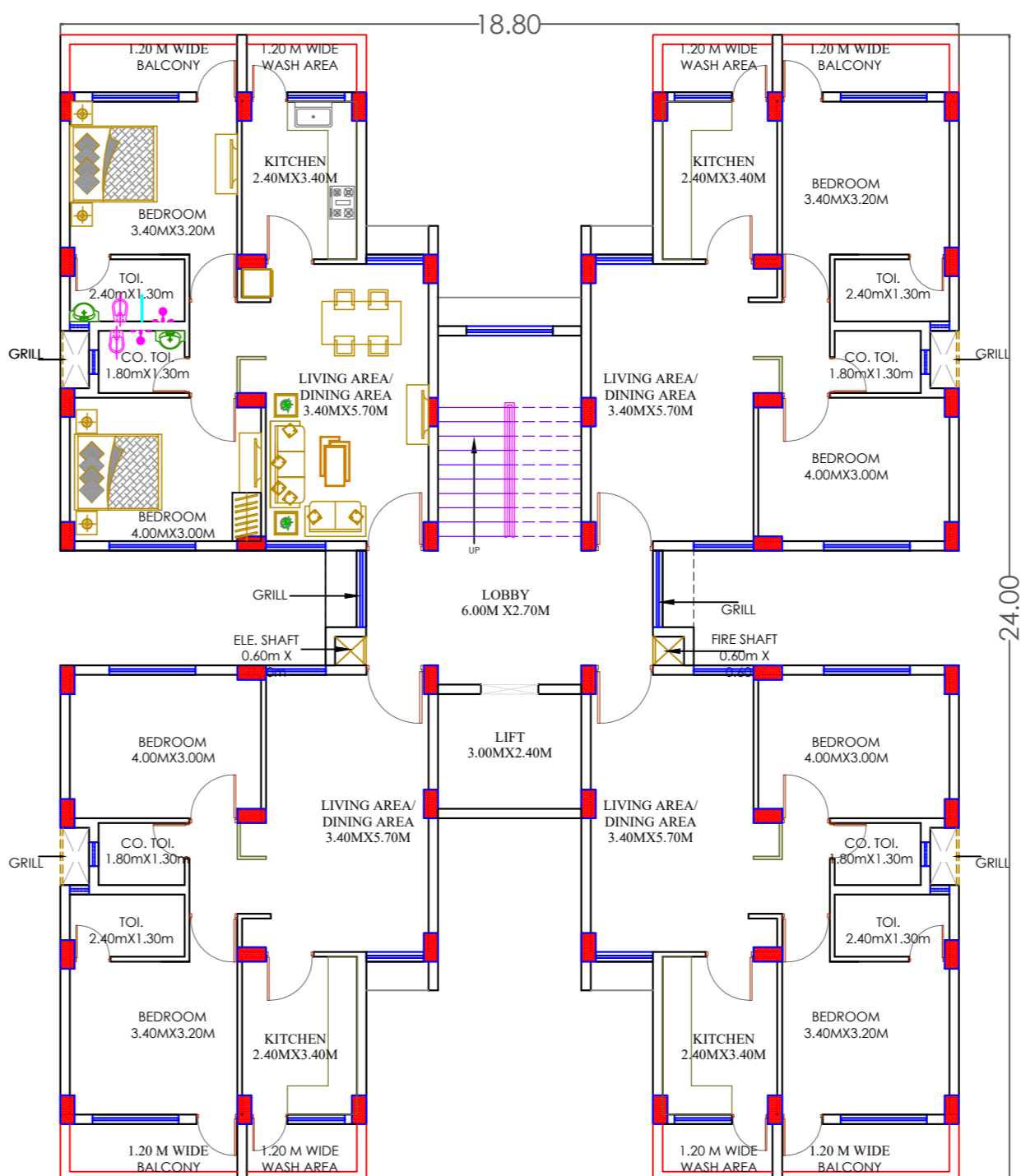
25/07/2024 AR.ANSHUL Ar. Piyush

DRAWING NAME SHEET NO.

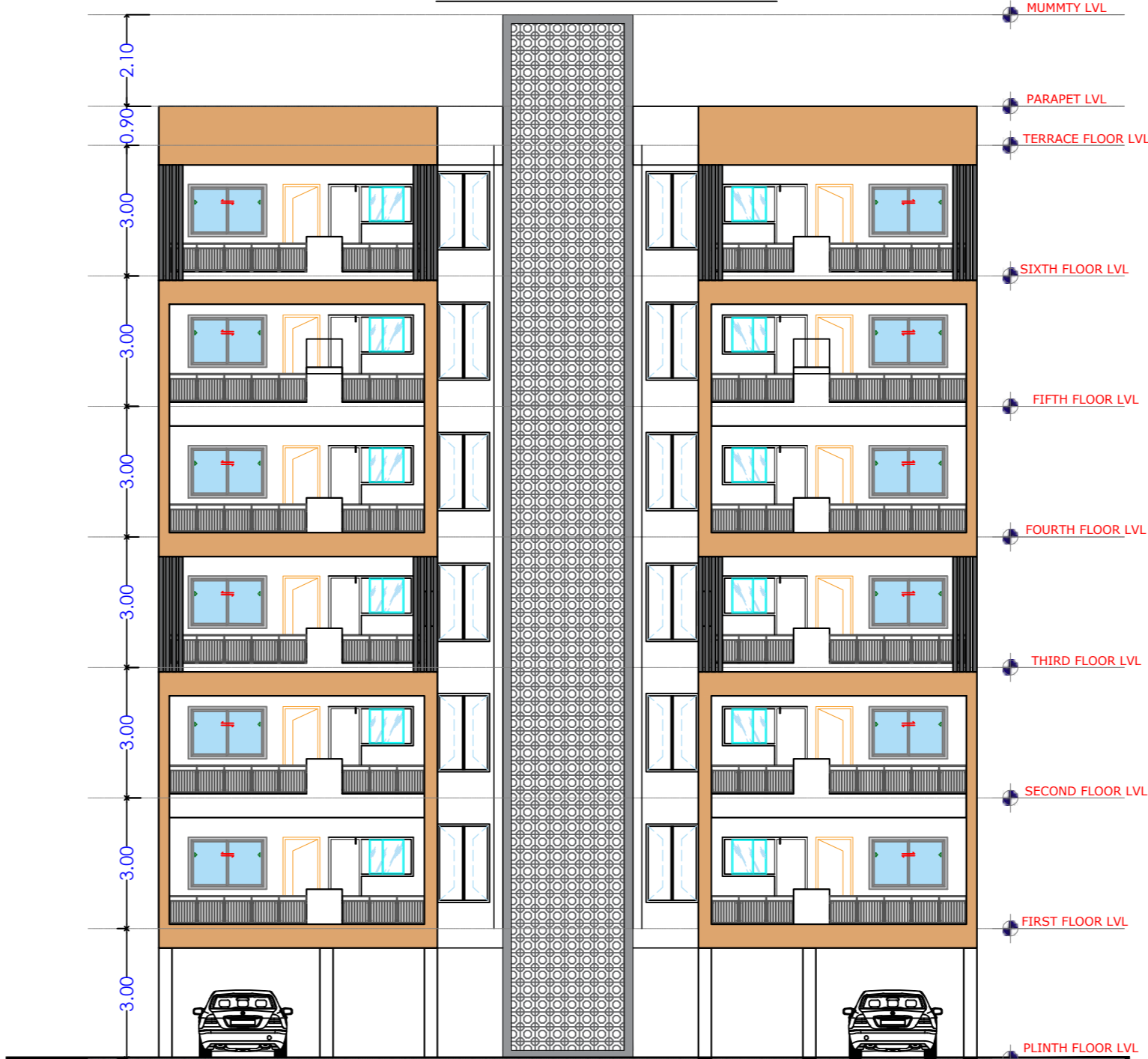
E-TYPE GAD QTR.



G-TYPE 2BHK GAD QUARTER (S+6)  
STILT FLOOR PLAN



G-TYPE 2BHK GAD QUARTER (S+6)  
TYPICAL FLOOR PLAN



ELEVATION

PROJECT:-

REDEVELOPMENT  
PROJECT AT KAILASH  
NAGAR NH-53  
RAJNANDGAON,C.G.

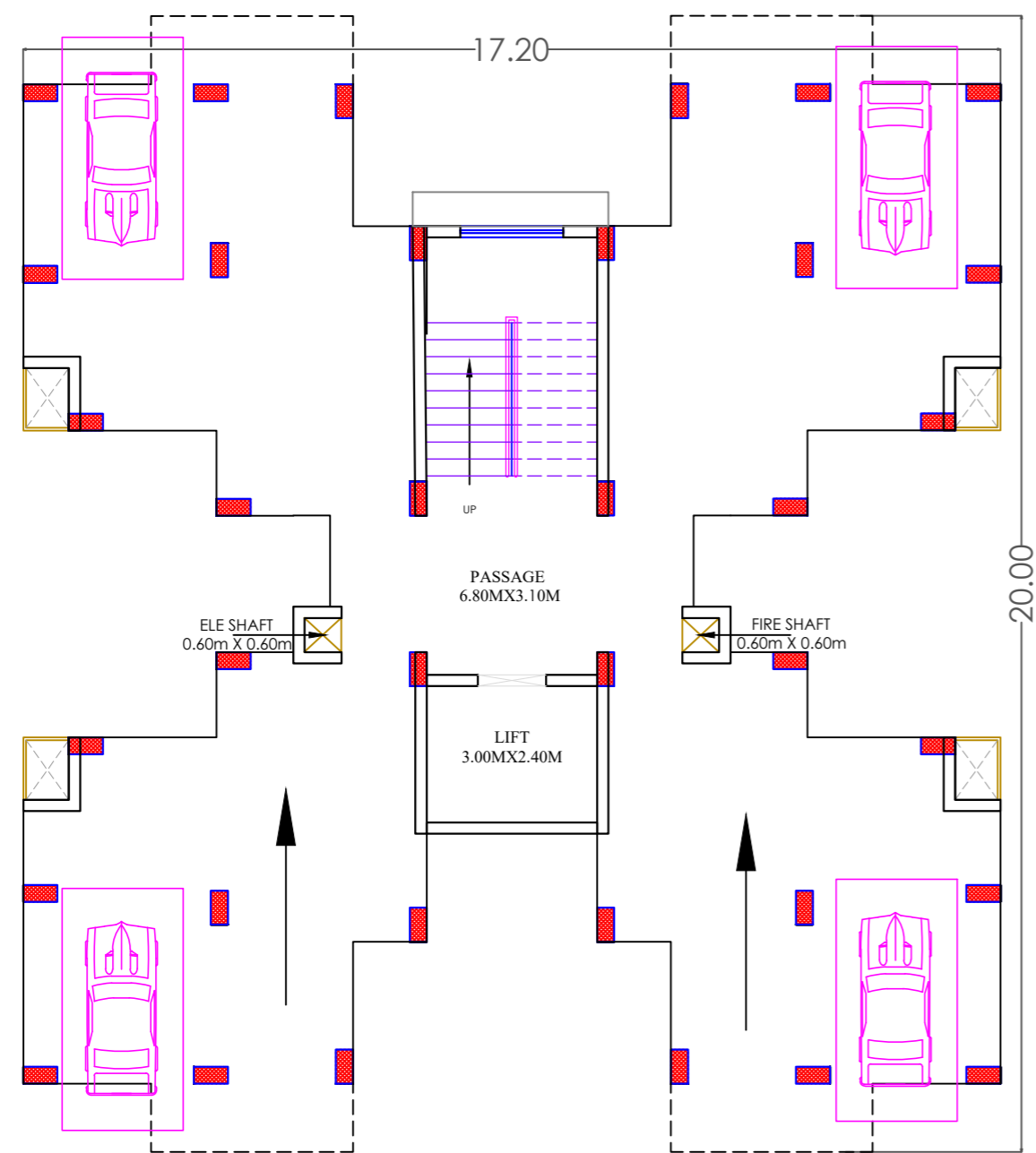
G-TYPE QTR. (2BHK) S+6		
TYPICAL FLOOR B.L.A	=	35.00 SQM
ONE UNIT SUPER B.L.A	=	81.50 SQM.
ONE UNIT G.U.A.	=	77.70 SQM.
ONE UNIT CARPET AREA		
	=	61.90 SQM.
TOTAL CARPET AREA		

EXEC. ENG. SIGN. ASST. ENG. SIGN. SUB ENG. SIGN.

ARCHITECT SIGN. TOWN PLANNER SIGN.

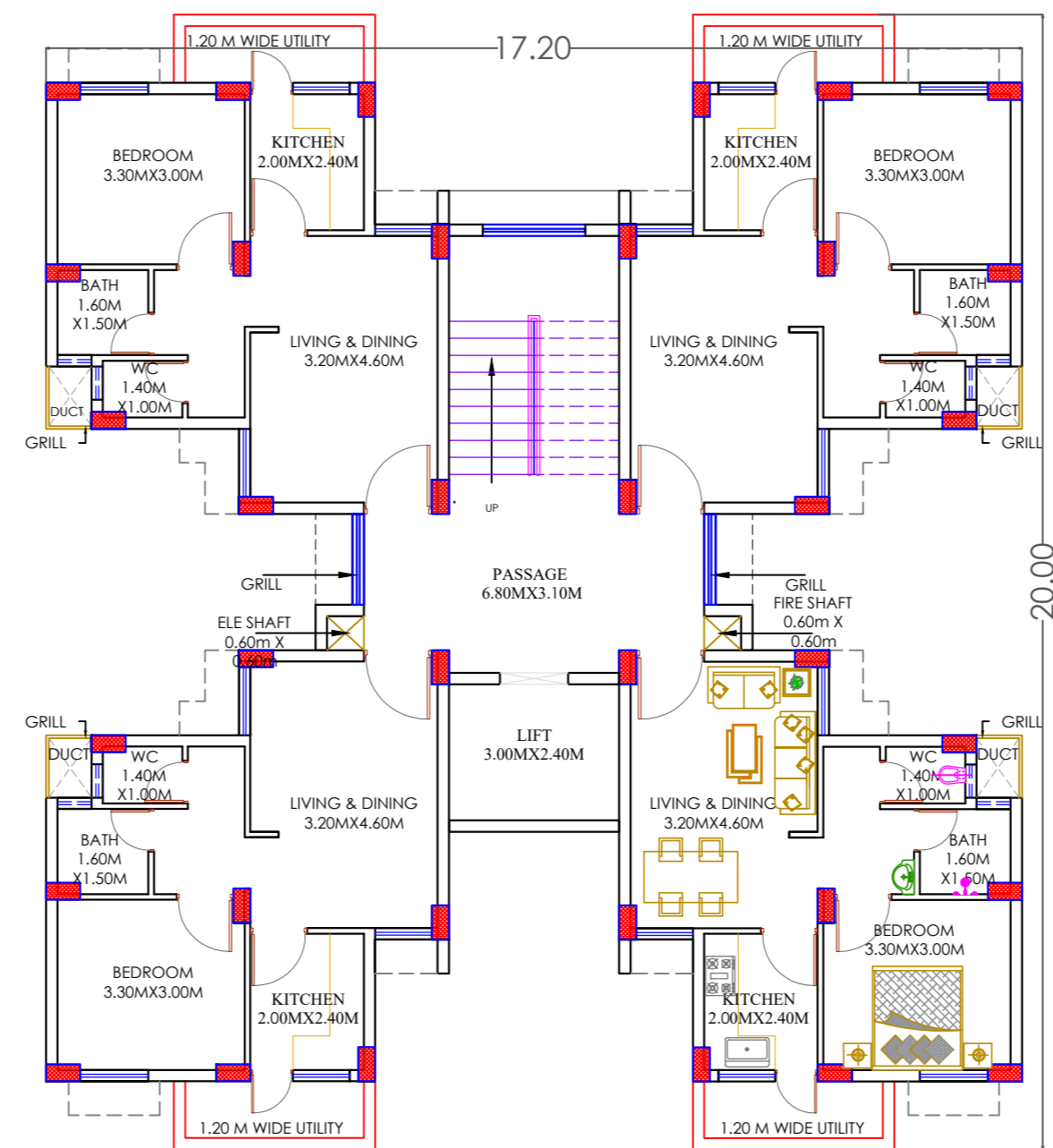
CLIENT ADDRESS  
**Executive Engineer  
Chhattisgarh Housing  
Board, (C.G.)**

SCALE	DATE	DRAWN	CHECKED
	25/07/2024	AR.ANSHUL SENGAR	Ar. Piyush Raj Verma
DRAWING NAME			PAGE NO.
G-TYPE GAD QTR.(2BHK)- S+6 =TYPICAL PLAN			195

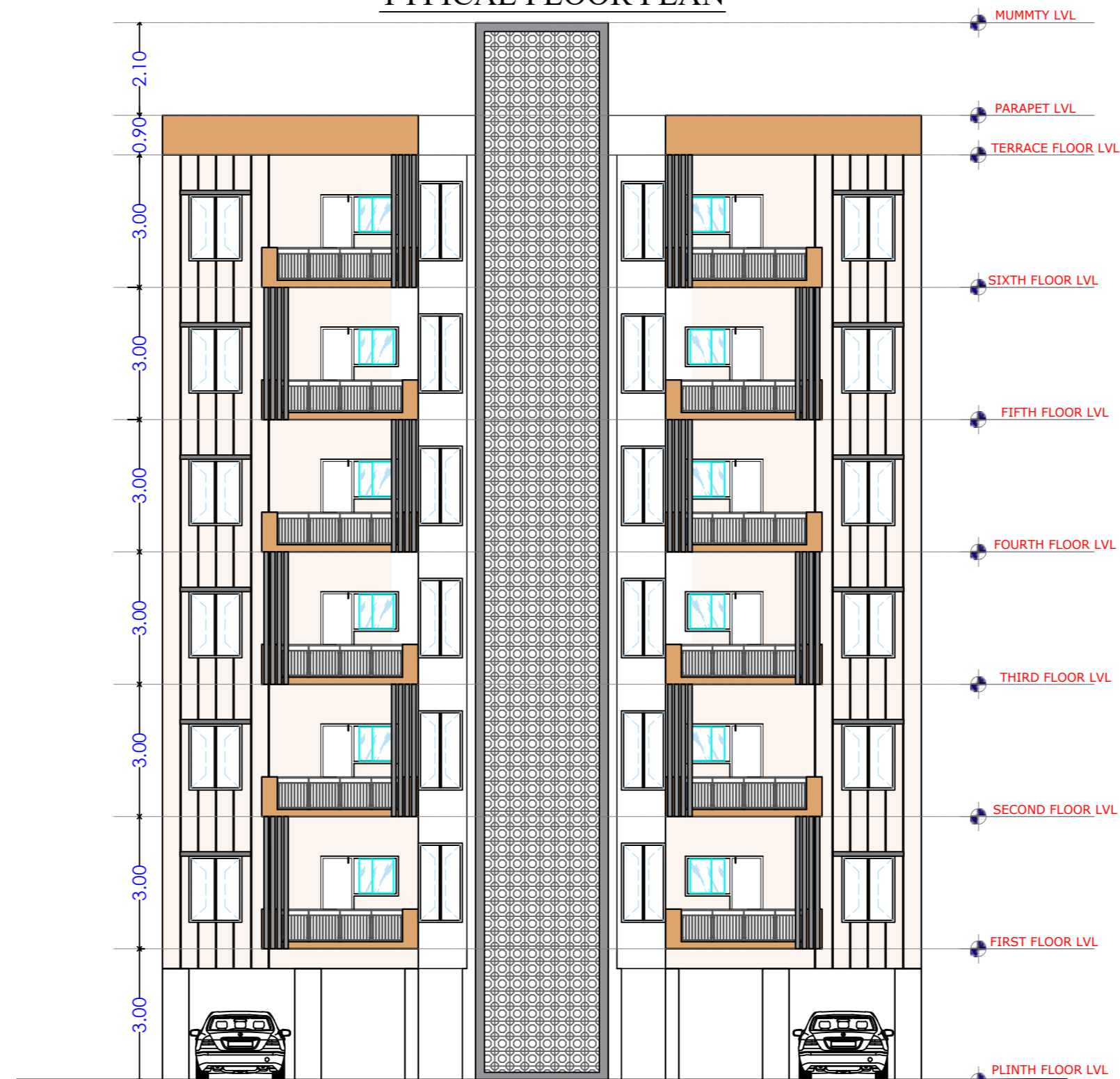


H-TYPE 1BHK GAD QUARTER (S+6)  
STILT FLOOR PLAN

PROJECT INFORMATION MEMORANDUM- KAILASH NAGAR RAJNANDGAON



H-TYPE 1BHK GAD QUARTER (S+6)  
TYPICAL FLOOR PLAN



ELEVATION

PROJECT:-

REDEVELOPMENT  
PROJECT AT KAILASH  
NAGAR NH-53  
RAJNANDGAON,C.G.

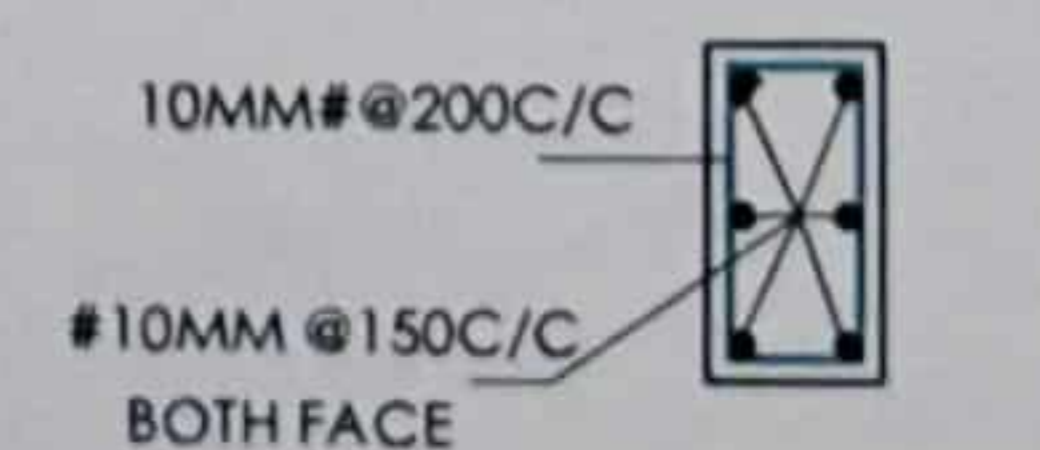
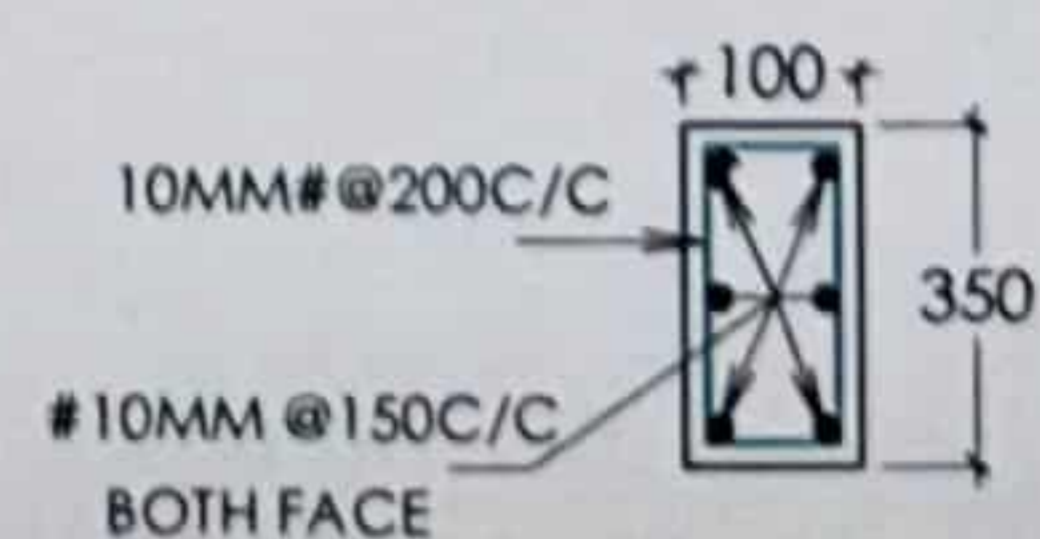
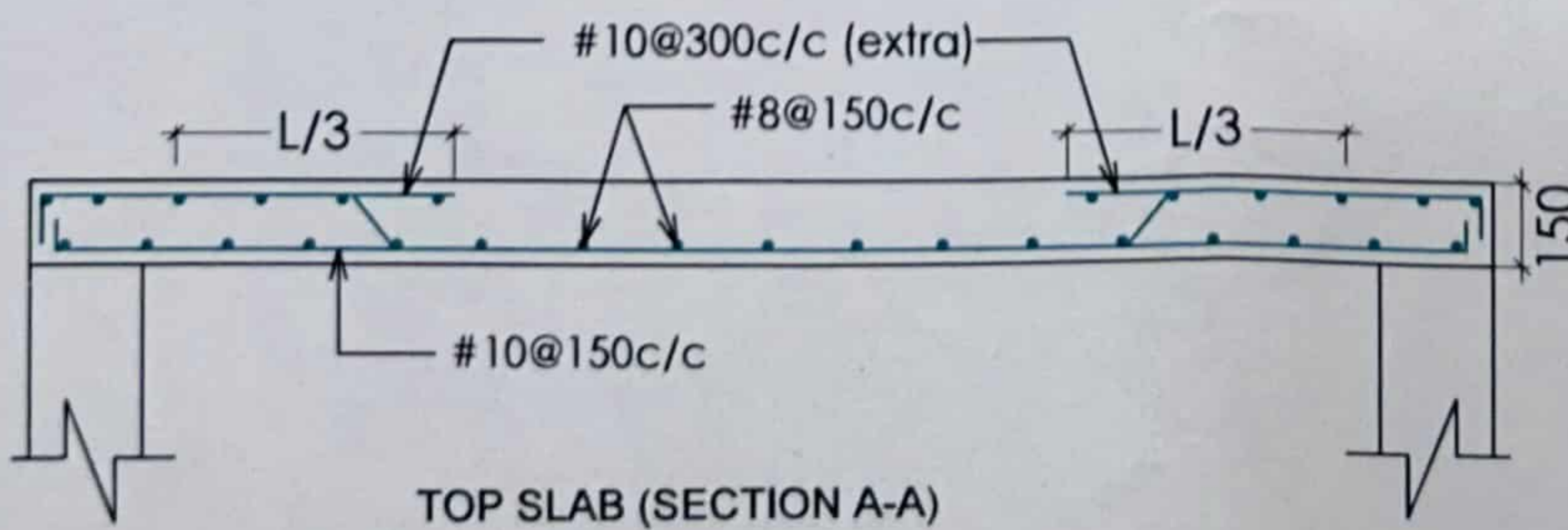
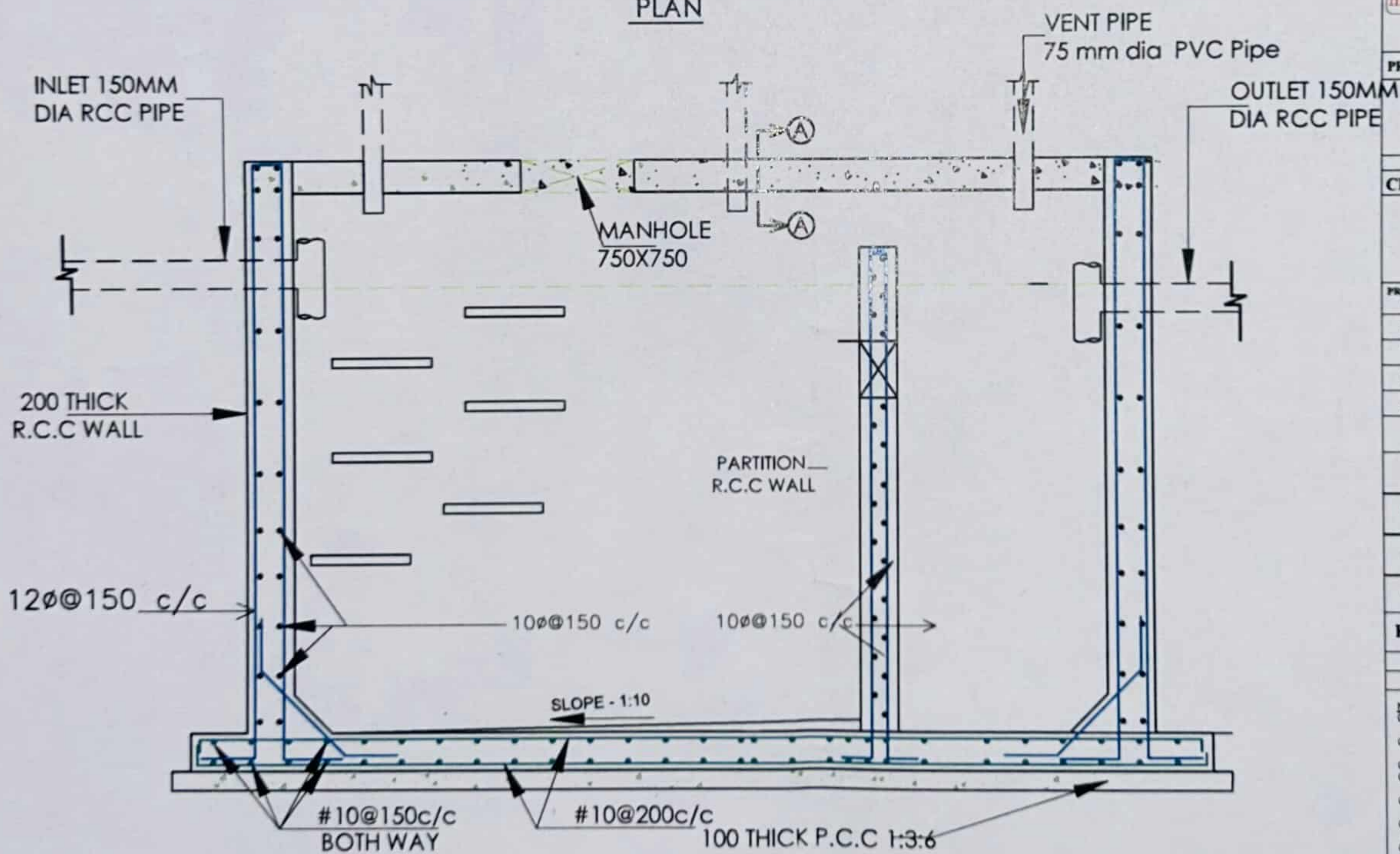
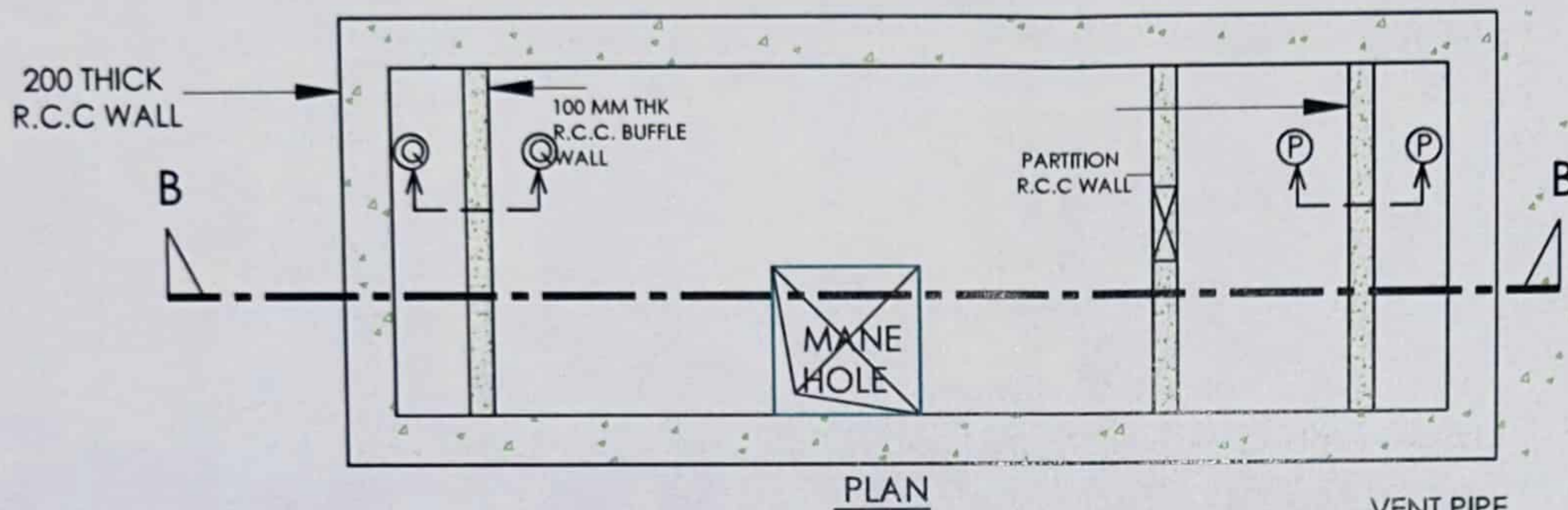
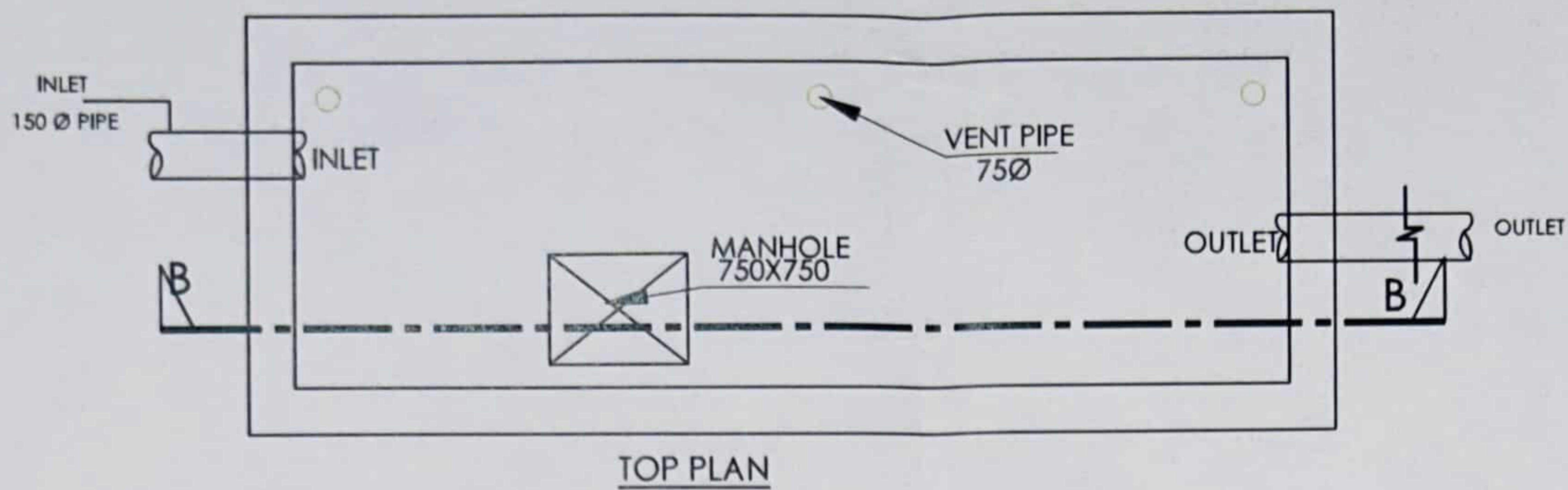
H-TYPE QTR. (1BHK) S+6		
TYPICAL FLOOR B.L.A	=	231.77 SQM
ONE UNIT SUPER B.L.A	=	56.19 SQM
ONE UNIT SUB A.	=	47.61 SQM
ONE UNIT CARPET AREA	=	37.82 SQM
TOTAL CARPET AREA: 1473.84 SQM		

EXEC. ENG. SIGN. ASST. ENG. SIGN. SUB ENG. SIGN.

ARCHITECT SIGN. TOWN PLANNER SIGN.

CLIENT ADDRESS  
**Executive Engineer  
Chhattisgarh Housing  
Board, (C.G.)**

SCALE	DATE	DRAWN	CHECKED
	25/07/2024	AR.ANSHUL SENGAR	Ar. Piyush Raj Verma
DRAWING NAME			PAGE NO.
H-TYPE GAD QTR.(1BHK)- S+6 =TYPICAL PLAN			196



Remark -

**GENERAL NOTES**

- ALL DIMENSIONS ARE IN MM
- CONCRETE GRADE FOR TANK M20 [1:1.5:3] MIX WITH WATER PROOFING COMPOUND MECHANICAL VIBRATOR TO BE USED DURING CONCRETING.
- CONCRETING OF BOTTOM SLAB+WALLS TO BE COMPLETED IN ONE OPERATION UP TO CONSTRUCTION JOINT [MINIMUM 600 MM]
- CLEAR COVER TO REINFORCEMENT FOR TANK WALLS & BOTTOM
- SLAB 40MM.
- LAP LENGTH FOR BARS 600 & TO BE PROVIDED STAGGERED
- TOP LEVEL OF SEPTIC TANK SHOULD BE 300mm ABOVE RELEVANT FGL.

**DISCLAIMER:**

NOTE- refer all architectural drawing with reference to structural drawings. In case of any confusion / mismatch in drawings let us inform before execution. In case work executed by contractor without prior notice to architect/engineer in charge, then contractor will whole sole responsible for any misleading.

PROJECT -

CLIENT -

PROJECT NAME OF EMRS	
BLOCK	---
VILLAGE	---
DISTRICT	---
KILASHA NO	TBC
DATE	DRAWING STATUS
	GFC

G.F.C. Good for construction

N.F.C. Not for construction

O.F.T.S. Only For Technical Sanction

Revision	Date	Remark
R6		

NOTE:-

01. This drawing is copyright and property of 'G.T DESIGN STUDIO' and is not to be reproduced, copied, or used for any other purpose.
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03. Written dimensions shall be followed.
04. Any change required shall be confirmed from the architect prior to commencement of work.
05. This drawing shall be read in conjunction with other pertinent drawings.
06. If there is any discrepancy, it shall be referred to the architect for clarification.
07. All dimensions are in meter.

APPROVED BY:-

AR.PIYUSH RAJ VERMA

CHECKED BY:-

AR.PIYUSH RAJ VERMA

STRUCTURAL DESIGNED BY:-

YASH JAIN

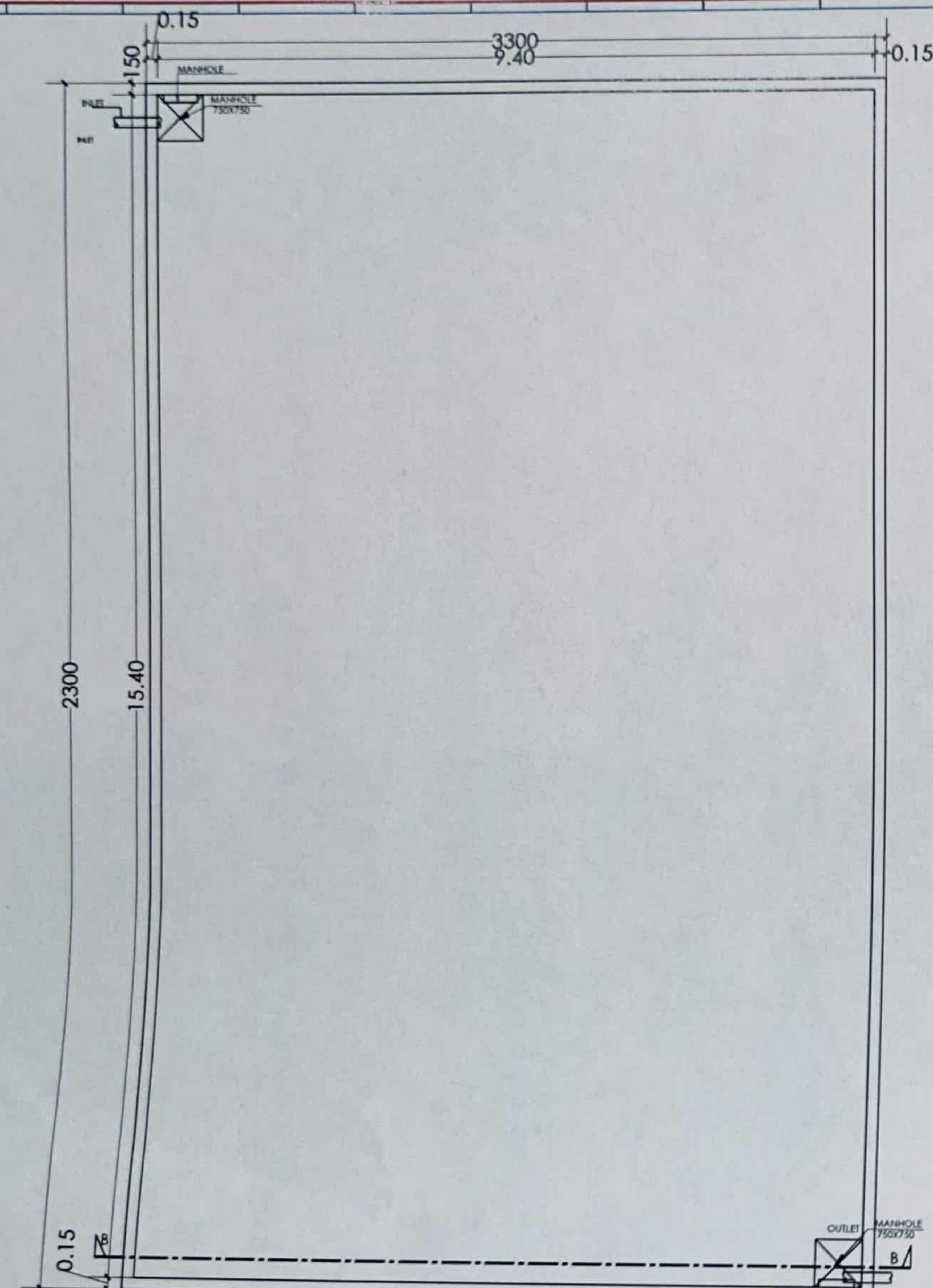
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TITLE :-

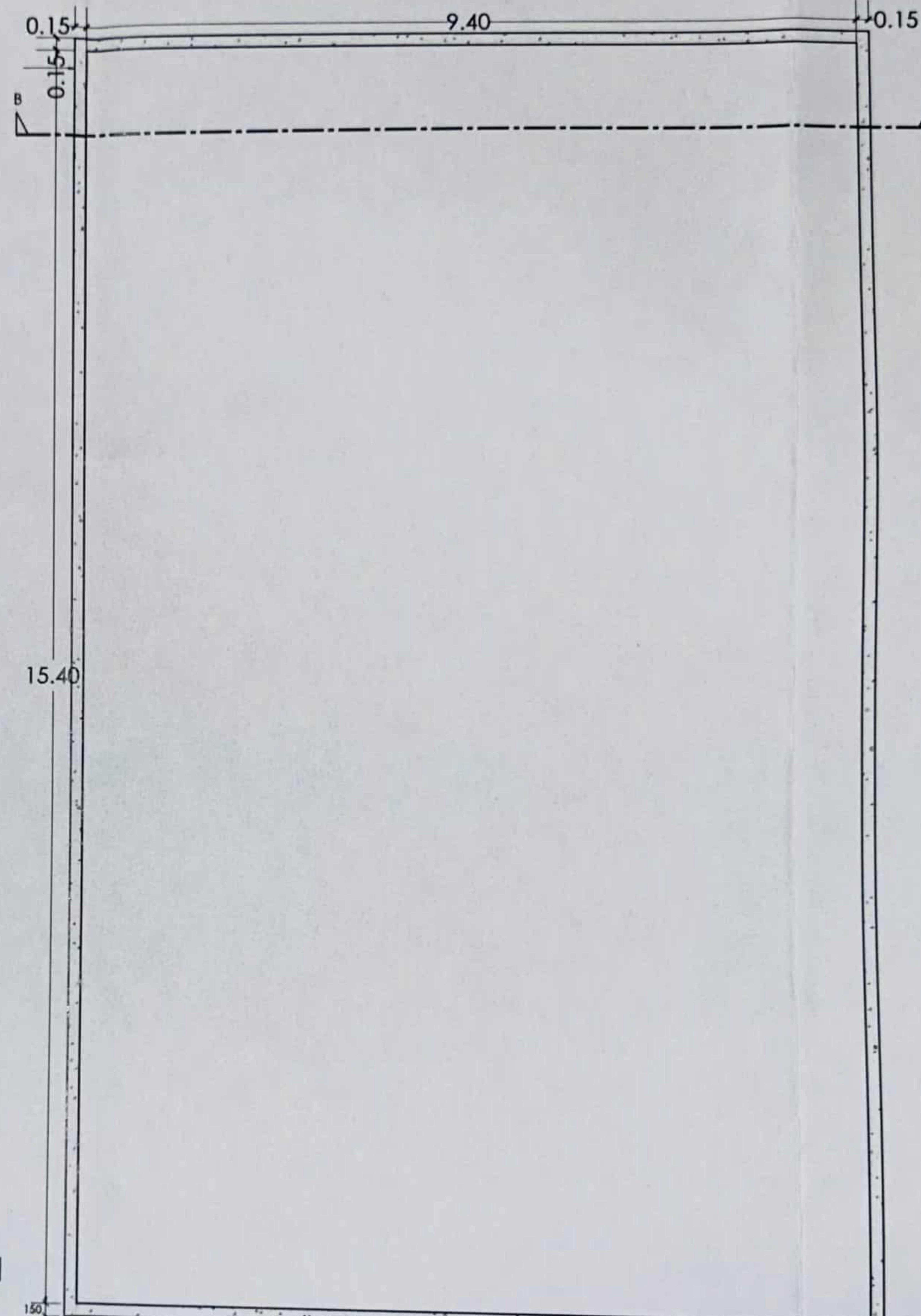
SEPTIC TANK

DRG. NO.

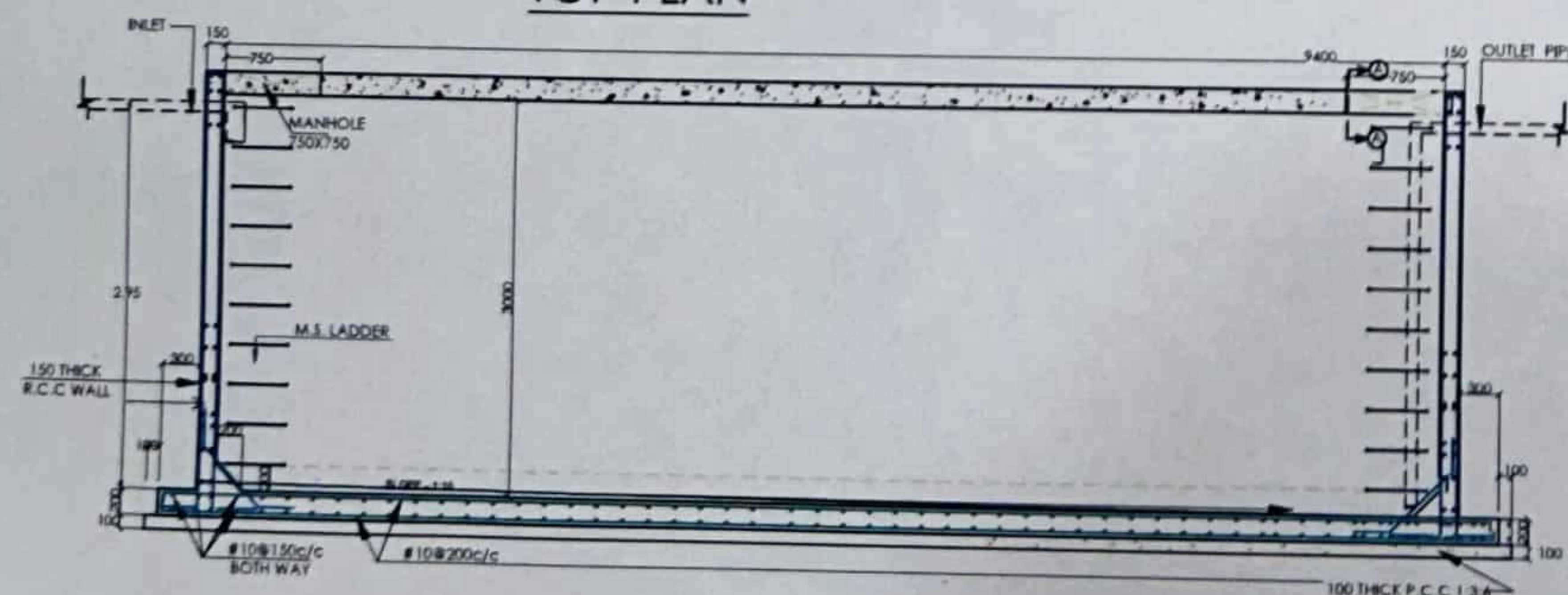
DWN. BY. ARANSHUL



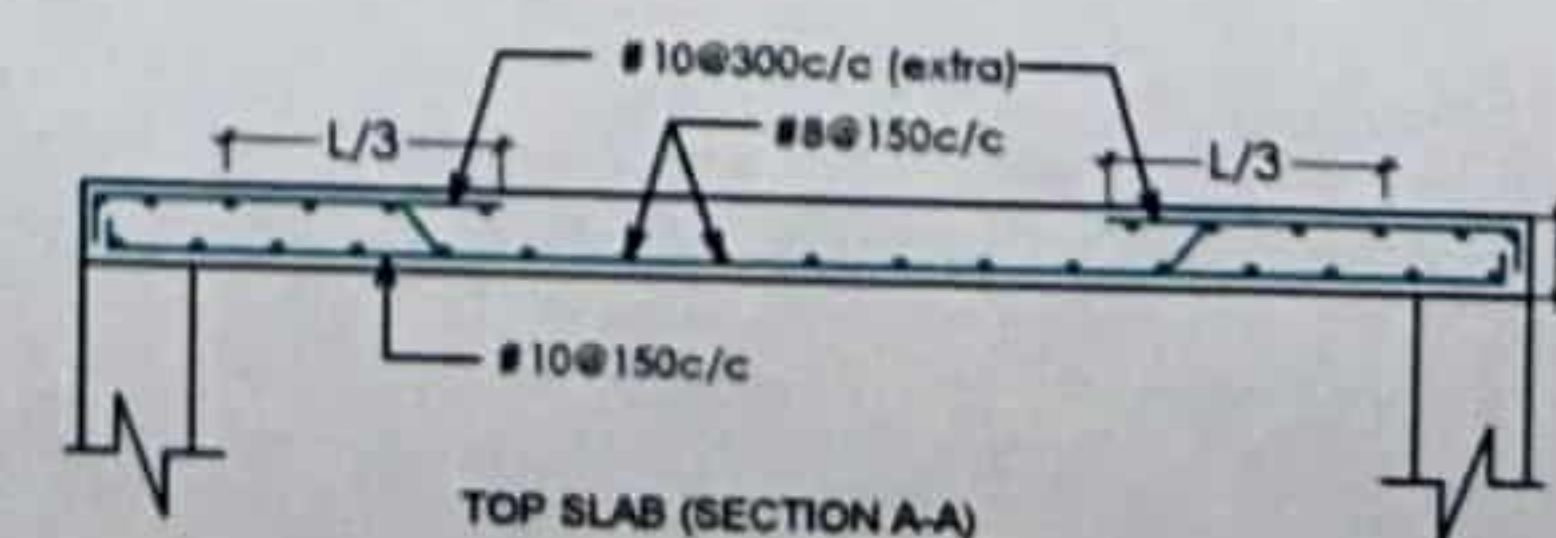
TOP PLAN



PLAN



LONGITUDINAL SECTION B-B



TOP SLAB (SECTION A-A)

REMARK -

## GENERAL NOTES

- ALL DIMENSIONS ARE IN MM
- CONCRETE GRADE FOR TANK M20 (1:1.5:3) MIX WITH WATER PROOFING COMPOUND MECHANICAL VIBRATOR TO BE USED DURING CONCRETING.
- CONCRETING OF BOTTOM SLAB+WALLS TO BE COMPLETED IN ONE OPERATION UP TO CONSTRUCTION JOINT (MINIMUM 600 MM)
- CLEAR COVER TO REINFORCEMENT FOR TANK WALLS & BOTTOM SLAB 40MM.
- LAP LENGTH FOR BARS 600 & TO BE PROVIDED STAGGERED
- TOP LEVEL OF SEPTIC TANK SHOULD BE 300mm ABOVE RELEVANT FGL.

PROJECT -

CLIENT -

PROJECT NAME OF EMBR	
BLOCK	—
VILLAGE	—
DISTRICT	—
KHASRA NO	TBC
DATE	DRAWING STATUS
	GFC

G.F.C. Good for construction

N.F.C. Not for construction

O.F.T.S. Only For Technical Sanction

Revision	Date	Remark
R6		

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04. Any change required shall be confirmed from the architect prior to commencement of work.
05. This drawing shall be read in conjunction with other pertinent drawings.
06. If there is any discrepancy, it shall be referred to the architect for clarification.
07. All dimensions are in meter.

APPROVED BY:-

AR. PIYUSH RAJ VERMA

CHECKED BY:-

AR. MANISH SONI

STRUCTURAL DESIGNED BY:-

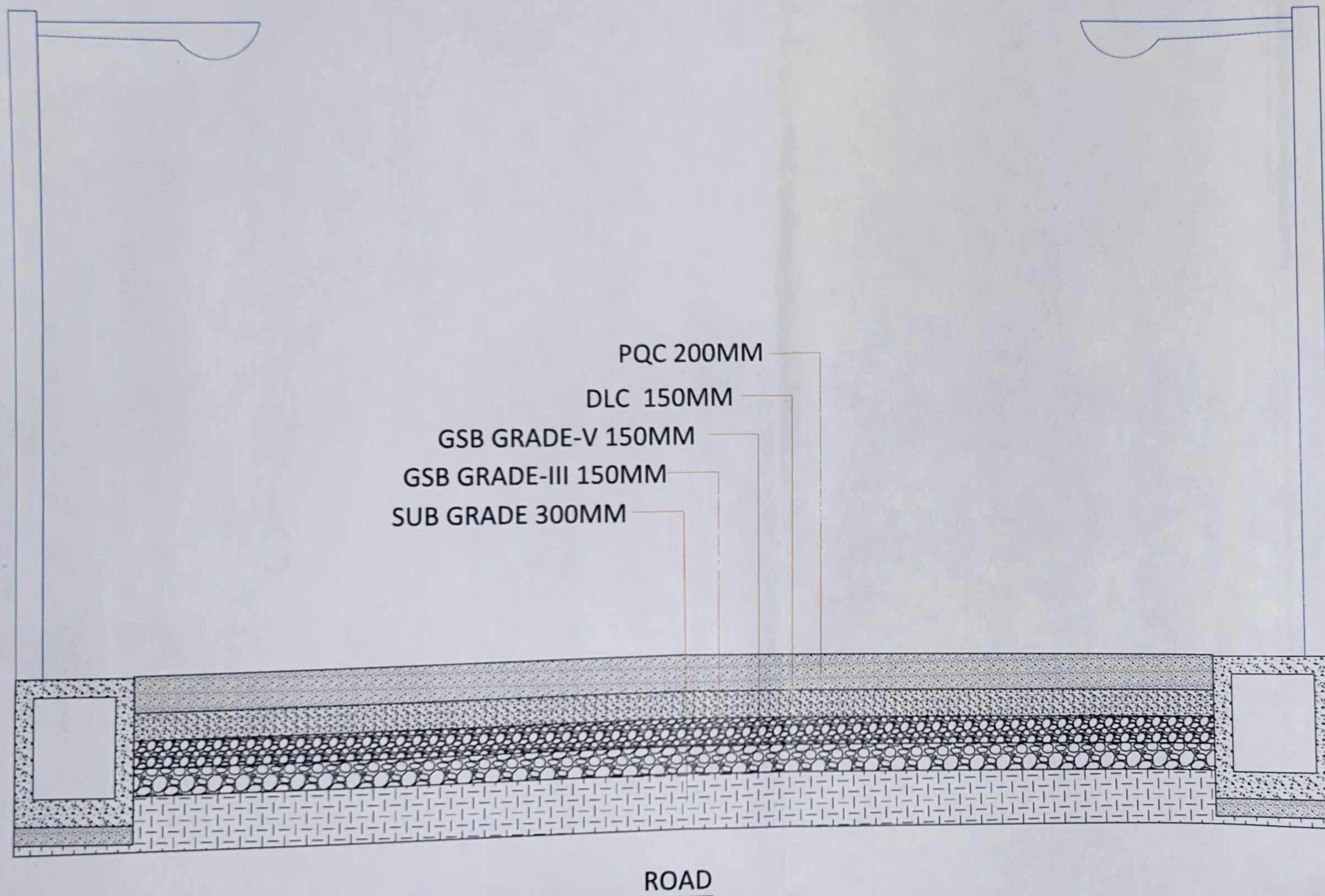
CONSULTANT ARCHITECT:-

TITLE :-

SUMP WELL

DRG. NO.

DWN. BY. ARANSHUL



REMARK -

**GENERAL NOTES**

- ALL DIMENSIONS ARE IN MM
- CONCRETE GRADE FOR TANK M20 [1:1.5:3] MIX WITH WATER PROOFING COMPOUND MECHANICAL VIBRATOR TO BE USED DURING CONCRETING.
- CONCRETING OF BOTTOM SLAB+WALLS TO BE COMPLETED IN ONE OPERATION UP TO CONSTRUCTION JOINT (MINIMUM 600 MM)
- CLEAR COVER TO REINFORCEMENT FOR TANK WALLS & BOTTOM
- SLAB 40MM.
- LAP LENGTH FOR BARS 600 & TO BE PROVIDED STAGGERED
- TOP LEVEL OF SEPTIC TANK SHOULD BE 300mm ABOVE RELEVANT FGL.

PROJECT -

CLIENT -

PROJECT NAME OF EMRS	
BLOCK	—
VILLAGE	—
DISTRICT	—
KHASSA NO	TBC
DATE	DRAWING STATUS
	GFC

G.F.C. Good for construction

N.F.C. Not for construction

O.F.T.S. Only For Technical Sanction

Revision	Date	Remark
R6		

**NOTE:-**

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02. All dimensions shall be checked on the prior to commencement of work.
03. Written dimensions shall be followed.
04. Any change required shall be confirmed from the architect prior to commencement of work.
05. This drawing shall be read in conjunction with other pertinent drawings.
06. If there is any discrepancy, it shall be referred to the architect for clarification.
07. All dimensions are in meter.

APPROVED BY:-

AR.PIYUSH RAJ VERMA

CHECKED BY:-

AR.MANEH SONI

STRUCTURAL DESIGNED BY:-

CONSULTANT ARCHITECT:-

TITLE :-

ROAD SECTION

DRG. NO.

DWN. BY. ARANSHUL

## RCC COVER

8  $\Phi$  @ 150 C/C  
DIST BAR

10  $\Phi$  @ 150 C/C  
VERTICAL R/F

150

600

150

100

PCC

150

150

600 MM DRAIN  
SECTIONAL DETAIL

REMARK -

## GENERAL NOTES

- ALL DIMENSIONS ARE IN MM
- CONCRETE GRADE FOR TANK M20 (1:1.5:3) MIX WITH WATER PROOFING COMPOUND MECHANICAL VIBRATOR TO BE USED DURING CONCRETING.
- CONCRETING OF BOTTOM SLAB+WALLS TO BE COMPLETED IN ONE OPERATION UP TO CONSTRUCTION JOINT (MINIMUM 600 MM)
- CLEAR COVER TO REINFORCEMENT FOR TANK WALLS & BOTTOM SLAB 40MM.
- LAP LENGTH FOR BARS 600 & TO BE PROVIDED STAGGERED
- TOP LEVEL OF SEPTIC TANK SHOULD BE 300mm ABOVE RELEVANT FGL.

PROJECT -

CLIENT -

PROJECT NAME OF EMRS	
BLOCK	—
VILLAGE	—
DISTRICT	—
KHASRA NO	TBC
DATE	DRAWING STATUS
	GFC

G.F.C. Good for construction

N.F.C. Not for construction

O.F.T.S. Only For Technical Sanction

Revision	Date	Remark
R6		

## NOTE:-

- This drawing is copyright and property of G.T DESIGN STUDIO and is not to be reproduced, copied, or used for any other purpose.
- All dimensions shall be checked on the prior to commencement of work.
- Written dimensions shall be followed.
- Any change required shall be confirmed from the architect prior to commencement of work.
- This drawing shall be read in conjunction with other pertinent drawings.
- If there is any discrepancy, it shall be referred to the architect for clarification.
- All dimensions are in meter.

APPROVED BY:-

AR. PIYUSH RAJ VERMA

CHECKED BY:-

AR. MANISH SONI

STRUCTURAL DESIGNED BY:-

CONSULTANT ARCHITECT:-

TITLE :-

DRAIN SECTION

DRG. NO.

DWN. BY. ARANSHUL

200

# ***ANNEXURE 3***

## ***(Technical Specification)***

**ANNEXURE - 16****General Specification of Construction of GAD Quarters, Offices and Colony**

<b>GENERAL SPECIFICATION FOR W.R.D OFFICE BUILDING</b>			
	<b>Name of Work</b>	<b>:</b>	<b>THE CONSTRUCTIONS OF W.R.D OFFICE UNDER REDEVELOPMENT YOJANA AT KAILASH NAGAR RAJNANDGAON (C.G.)</b>
		<b>:</b>	<b>Following provision have been made in this Building.</b>
1	Built up area (as per attached drawing) per unit	:	<ul style="list-style-type: none"> <li>• STILT.F Built-up Area :364.46 SQMT</li> <li>• F.F. TO T.F. Built-up Area : 1093.38 SQMT</li> <li>• TOTAL Built up Area : 1108.59 SQMT</li> <li>• Structural Drawing should be prepared by contractor himself and approved by N.I.T. in consideration with ( S+3) Building.</li> </ul>
2	Required plinth height above Modified Ground level	:	<ul style="list-style-type: none"> <li>• Plinth Height of building from Final Road level, should be not less than 0.20 meter Or as Per Site Condition &amp; Directed by Engineer in Charge</li> </ul>
3	Foundation	:	<ul style="list-style-type: none"> <li>• As per Approved Structural Drawing by NIT Which Prepared by Contractor Himself and Approved by N.I.T. in consideration with ( S+3) Building.</li> </ul>
6	Plinth	:	<ul style="list-style-type: none"> <li>• Column Upto plinth With Necessary Tie Beam at plinth Casting with M 25 Grade design mix reinforced cement concrete using batching plant, transit mixer and concrete pump, in all works upto plinth level.</li> <li>• Plinth filling as per site condition From N.G.L. to M.G.L. damp proof course (upto 50mm thick) with plain cement concrete 1:2:4 (1 cement : 2 coarse sands : 4 graded crushed stone aggregate 20mm nominal size) With 150 mm 1:4:8 (1 cement : 4 coarse sands : 8 graded stone aggregate 40mm nominal size) Base.</li> </ul>
7	Plinth Filling	:	<ul style="list-style-type: none"> <li>• If excavated soil or part of Excavated soil seems to be good for filling, same shall be refilled in foundation pit as per direction of Engineer In charge and plinth shall be filled from ground level to DPC level using only Murrum /Sand /Crushed Stone Dust and Outer plot area will be levelled by murrum filling. upto final road level</li> <li>• Balance unused excavated soil to be disposed to a distance is not less than 1.00 km from the site or used for site levelling as directed by Engineer - in - charge as well as refilling and dressing</li> </ul>

				completed around plot boundary and outer side of plot.
8	Superstructure	:		<ul style="list-style-type: none"> <li>R.C.C. Column , Beam &amp; Slab with M25 Grade design mix reinforced cement concrete using batching plant, transit mixer and concrete pump, in all works in superstructure above plinth level for every floor.</li> <li>Ceiling height 3.325 meter from DPC level to roof slab top level In S.F., F.F., S.F., T.F. RCC Frame Structure with M - 25 Grade Design Mix reinforced cement concrete.</li> <li>All R.C.C. sun - shades [Chhajja] shall be casted with plain face and bottom surface with drip mold and smooth quarter round cement concrete surface [Haller] at top with cement concrete M - 25.</li> <li>All parapet column upto 0.9-meter height in roof with proper plaster, putty, painting. RCC Approach slab over drain to entrance in building.</li> </ul>
9	Masonry work			<ul style="list-style-type: none"> <li>Brick work with modular fly-ash lime bricks (FaLG Bricks) in CM 1:6 has been provided in 20 cm Wall.</li> <li>Brick work with Flyash brick in CM 1:4 has been provided in 10 cm wall with 80 mm thick RCC Bend at Sill &amp; providing and placing 2 NOS. 8MM DIA MS bars reinforcement at every third course of half brick masonry work.</li> <li>Lintel beam should be provided at lintel level at all brick masonry work Wall 20 cm &amp; 10 cm</li> </ul>
	Plastering	:		<ul style="list-style-type: none"> <li>12mm thick plaster for smooth side In Cement Mortar 1:4 (1 cement : 4 fine sand).</li> <li>15mm thick plaster for rough side In Cement Mortar 1:4 (1 cement : 4 fine sand).</li> <li>6mm thick plaster for ceiling In Cement mortar 1:4 (1 cement: 4 fine sand) has been used in this building.</li> <li>Chicken mesh weighing not less than 250 gms/ sqm as per IS : specification in the required width with 40mm long steel nails on vertical and horizontal surface near R.C.C. and brick walls junctions including scaffolding and all lead and lifts at Column Beam Junction both side plaster.</li> <li>mixing water proofing material in outer cement plaster</li> </ul>

				Note-)18mm thick plaster in elevation plaster work must be done in 2 layer first 12mm in 1:5 cement mortar and second 6mm thick in 1:3 cement mortar.
10	Flooring	:	(i)	<ul style="list-style-type: none"> <li>• Providing and laying DOUBLE/MULTI CHARGE (minimum 2.0 mm thick laying) VIRTRIFIED floor tiles 1000x1000 mm thickness 9 to 10 mm in G.F &amp; F.F., Bedroom , Dinning , Drawing Room, Family room, kitchen Including 150mm Skirting.</li> <li>• 15 mm thick Table rubbed polished Granite stone black In All Around in Window, Door Sil and Ventilation section Stair ,landing, veranda, Kitchen platform . All Other Things Directed by Engineer in Charge .</li> </ul>
			(ii)	<ul style="list-style-type: none"> <li>• Providing and Fixing rectified glazed ceramic wall/dado tiles of 1st quality Size 400x800 mm thickness 7 to 8mm At Toilet wall height 2.10-meter, Kitchen Dado 0.75 meter,</li> <li>• wall tiles in Utility Area with 0.60-meter, Wash Basin wall.</li> <li>• Providing and Fixing rectified glazed ceramic floor tiles of 1st quality Size 600x600 mm thickness 8 to 9 mm in Toilet, Dress Area, Utility Floor &amp; First Floor covered Sit out, above porch, Terrace, Balcony.</li> </ul>
			(iii)	<ul style="list-style-type: none"> <li>• Providing &amp; laying 60mm thick precast interlocking concrete blocks of approved size Pigment Coloured (rubber Mold) precast interlock concrete blocks in Stilt Floor ,paved , porch Area &amp; Open Area .</li> </ul>
11	Doors (S.F. To T.F.)	:		<ul style="list-style-type: none"> <li>• Providing woodwork in frames of doors, windows, clerestory windows and other frames wrought framed Doors ( Sal, bijasal, benteak, khair, halduand ) fixed in position.</li> <li>• Main Door Providing and fixing Teak Wood 30 mm thick panelled or glazed or panelled and glazed shutter frames for doors .</li> <li>• All Door shutters are 35 mm thick flush door shutters with teak ply veneering with vertical grains or cross bands and face veneers on both faces, except Doors exposed to sunlight are 40 mm thick panelled or glazed or panelled and glazed shutter frames for doors with Providing and fixing stainless steel Door fittings in All Door Fittings.</li> <li>• stainless steel Door fittings: -</li> </ul>

			<ul style="list-style-type: none"> <li>• 1) Stainless steel butt hinges with brass polished MS screws complete: 125x85x5.50 mm (Heavy Type)</li> <li>• 2) Providing and fixing stainless steel sliding door bolt with nuts and MS screws complete: 300x16mm</li> <li>• 3) Providing and fixing stainless steel door latch MS screws complete: 300x16x5 mm</li> <li>• 4) Providing and fixing bright finished stainless steel tower bolts (barrel type) with MS screws complete: 250x10mm &amp; 150x10mm</li> <li>• 5) Providing and fixing stainless steel door handles with MS screws complete: 125 mm</li> <li>• For Toilet Door - P.V.C. door frame of size 50x47mm with a wall thickness of 5mm, &amp; 30mm thick factory-made panel PVC door shutter with Stainless steel Door fittings .</li> </ul>
	Windows (S.F. To T.F.)	:	<ul style="list-style-type: none"> <li>• Providing and fixing factory-made uPVC Three track three panels sliding window made of (big series) frame 116 x 45 mm &amp; sash 46 x 62 mm both having wall thickness of 2.3+-0.2 mm section.</li> <li>• For All Window With float glass panes of 6 mm thickness glass, and stainless-steel wire gauge shutter. M.S. Iron grills in windows. providing and fixing reflective glass panes in window, ventilator.</li> <li>• All Other Things As per Directed by Engineer in Charge</li> </ul>
	Steel Work	:	<ul style="list-style-type: none"> <li>• Thermo-Mechanically treated bars FE 415 D Used In All RCC Work.</li> <li>• M.S. Iron grills in windows, Ventilators to be Provided.</li> <li>• Providing stainless steel SS Grade 304 Railing in Stair S.F. To T.F. As per Drawing Design &amp; Directed by Engineer in Charge</li> </ul>
	Painting	:	<ul style="list-style-type: none"> <li>• All woodwork French spirit polish on new woodwork after preparing the surface by rubbing down smooth with sand papers, covering the knots, if visible applying a coat of wood filler cleaning the surface applying 50 or more coats of French spirit polish till the surface gives high gloss.</li> <li>• Steel work is painted with synthetic Enamel paint.</li> <li>• Applying one coat of cement primer on wall surface (applied @ 0.80 litres/10 sqm) complete.</li> </ul>

			<ul style="list-style-type: none"> <li>• Apply 2mm thick putty (like Birla wall care, Alltek Superfine W/R of (NCL), Asian, ICI, Nerolac, J.K. wall putty) on inner walls and Inner and Outer walls.</li> <li>• Inner walls painted with acrylic premium emulsion (plastic) paint of required shade &amp; outer walls are painted with ACRYLIC SMOOTH exterior paint And Front Elevation wall exterior surface with TEXTURED exterior paint of required shade.</li> </ul>
	Terrace Flooring & Water Proofing		<ul style="list-style-type: none"> <li>• Providing and laying Crazy ceramic tile flooring, with under layer 12 mm thick cement mortar 1:4 (1 cement:4 coarse sand), including providing and mixing water proofing material in mortar @ 1 kg per 50 kg of cement, all complete as per direction of Engineer-in-charge.</li> <li>• Toilet Duct water proofing treatment in sunken portion of WCs, bathroom, kitchen etc., by applying cement slurry mixed with water proofing cement compound)</li> <li>• First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm. This layer will be allowed to air cure for 4 hours.</li> <li>• Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound@ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours. The rate includes treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry.(Asian water proofing brand recommended).</li> </ul>
	ACP WORK		<ul style="list-style-type: none"> <li>• Front Elevation Wall Designing, providing and fixing aluminium frame work made of special aluminium section on building face with M.S. angle iron brackets fixed on RCC structure with S.S. hold fasteners, including providing and fixing two sided structural adhesive tape of appropriate grade (NORTON or equivalent), on aluminium sections for fixing aluminium/ glass panel, sealing on periphery of frame work, by providing EPDM gasket, silicon weather sealant between aluminium frame and building structure including hire charges of double scaffolding complete</li> <li>• Providing and fixing aluminium composite panels in approved panel sizes, thickness and shape on aluminium framework on face of building 3mm thick.</li> </ul>

			<ul style="list-style-type: none"> <li>• Providing and fixing laminated glass sheet of 8.76mm thickness in approved sizes on aluminium framework on face of building.</li> </ul>
	Rainwater		<ul style="list-style-type: none"> <li>• Provision of PVC Rainwater pipe has given in the building with clamps &amp; Providing and fixing filter of 1000 litre capacity for roof top rainwater harvesting .</li> </ul>
	Sanitary		<ul style="list-style-type: none"> <li>• 1) Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot &amp; cold-water supply including all CPVC plain &amp; brass threaded fittings. This included jointing of pipes &amp; fittings with one step CPVC solvent cement, trenching, refilling &amp; testing of joints complete as per direction of Engineer in Charge. External work :-15 mm,25mm,32mm,40mm,50mm nominal outer dia pipes</li> <li>• 2) Providing and fixing brass/ gun metal gate valve with C.I. wheel of approved quality (screwed end):as per direction of Engineer in Charge.</li> <li>• 3) Cutting holes upto 15x15 cm in R.C.C. floors and roofs for passing drainpipe etc. and repairing the hole after insertion of drain pipe. with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including finishing complete so as to make it leak proof.</li> <li>• 4) Providing and fixing Chlorinated sand soil vinyl Chloride (CPVC) pipes, having thermal stability for hot &amp; cold-water supply including all CPVC plain &amp; brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes &amp; fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge</li> <li>• 5) Cutting holes upto 30x30 cm in walls including making good the same :</li> <li>• 6) Providing and fixing 15 mm nominal bore C.P. brass fittings of approved make and conforming to IS:8931 including C.P. brass extension if required: Bib cock (400 grams), Long body bib cock (500 grams ) For Sink 345x445 mm bowl depth 200 mm. Piller Cock (400 grams), Two way bib cock (800 grams), Stop cock (concealed) (600 grams), Long nose bib cock (500</li> </ul>

				grams),Angle valve for basin mixer and geyser points (450 grams) ,Bottle trap set with extension pipes, , Shower rose (revolving type) (150mm),
				<ul style="list-style-type: none"> <li>• Providing and fixing 15 mm nominal bore C.P. brass fittings of approved make and conforming to IS:8931 including C.P. brass extension if required, <b>Wall mixer with elegant knob (1400 grams), Health faucet (hand jet) with flexible connection pipe (for WC)</b></li> <li>• 7) Providing and fixing stainless steel drain Jali of approved make/quality.</li> <li>• 8) Providing and fixing Jaquar make vitreous China pedestal type Anti germ Fluro Polymer coated wall mounted <b>European type W.C. pan size 760x365x620mm</b> system code CNS WH 16 with soft closing seat cover CODE WCS-7 and 7.2 litre low level slim dual flush of code CNS-02 &amp; dual flush fitting code CNS WCF 01 PP(poly Propylene) made 80 mm thick concealed flushing cistern, flushing capacity CODE WHC-WCFI and making good the wall and floors.</li> <li>• 9) Providing and fixing Jaquar make white vitreous China Anti germ Fluoro Polymer Coated Under Counter Wash Basin Size 190x550x435 mm with C.I. Brackets, 15mm C.P. 32mm C.P. brass made waste Trap size 200 x 300 mm fitting and west coupling and bottle trap code ALD 769 L 250x 190 fixtures complete including Painting of fittings and cutting and making good the wall and floors</li> <li>• 10) Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink with drain board as per IS 13983 with C.I. brackets and stainless-steel plug 40 mm including painting of fittings and brackets, cutting and making good the walls wherever required :345x445 mm bowl depth 200 mm.</li> <li>• Providing and fixing Jaquar make white vitreous flat back anti germ floor polymer coated urinal size 630x375x315mm code URS-WHT-0702N with FLUSH PLATE PRS-CHR 073 with brass made prismatic flush 5 valve with wall flush (decal technology 400000 operation) and also included waste pipe and coupling complete with fitting and bracket cutting and making good wall.</li> </ul>
				<ul style="list-style-type: none"> <li>• 11) Providing and fixing 15 mm nominal bore unplasticized PVC connection pipe with PTMT nuts and PVC bush of approved quality and</li> </ul>

			<p>colour:45 CM length</p> <p>14) Providing and placing on terrace polyethylene water storage tank ISI : 12701 marked with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank 1000 litre-03 NOS.</p> <ul style="list-style-type: none"> <li>• 12) Providing and fixing on wall face or under floor UV stabilized Unplasticized Rigid PVC pipes (single socketed) having 3.2mm wall thickness conforming to IS : 13592 (4kg/sqcm) including required couplers, jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion etc complete. 75 mm dia pipe. &amp; 110 mm dia pipe.</li> <li>• 13) Providing and fixing on wall face UV stabilized Unplasticized - PVC moulded fittings/ accessories having 3.2mm wall thickness for Rigid PVC pipes conforming to IS : 13592 (heavy) jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion. Tee/ Tee with door/ Bend 45°/ Bend 90° : 75 mm &amp; 110 mm, Double "Y" with or without door 75 mm &amp; 110 mm, Vent Covel 75 mm &amp; 110 mm, Nahani trap 110x75mm</li> </ul>
			<ul style="list-style-type: none"> <li>• 14) Providing and fixing UV stabilized Unplasticized -PVC pipe clips of approved design to Rigid PVC pipes by means of 50x50x50mm hard wood plugs, screwed with M.S. screws of required length including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete. 75 mm &amp; 110 mm</li> <li>• 15) Providing and fixing M.S. holder-bat clamps of approved design to Sand Cast iron/cast iron (spun) pipe embedded in and including cement concrete blocks 10x10x10cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) including cost of cutting holes and making good the walls etc. : For 100 mm dia pipe &amp; For 75 mm dia pipe</li> <li>• 16) Providing and fixing filter of minimum 100 litre capacity for roof top rain water harvesting through tube well consisting of two layered HDPE tank with five layers (each layers of minimum 100 mm) consist of coarse sand, 4mm, 6mm, 8mm &amp; 12 mm gravels with stainless steel wire</li> </ul>

			<p>mesh fixed between each layer with suitable length and sufficient numbers of 110 mm dia PVC pipe pieces in the bottom of tank to support the above layer including fixing of inlet and out let P.V.C. pipe of required diameter upto 2 metre length on each side, Cement Concrete platform of required size complete as directed by Engineer in charge. (excluding cost of tubewell and inlet and outlet pipe beyond 2 metre)</p> <ul style="list-style-type: none"> <li>• 17) Providing and fixing square-mouth S.W. gully trap grade 'A' complete with C.I. grating brick masonry chamber with well burnt modular clay bricks crushing strength not less than 35kg/cm<sup>2</sup>, water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design :180x150 mm size P type</li> <li>• 18)Constructing brick masonry manhole with well burnt modular clay bricks crushing strength not less than 35kg/cm<sup>2</sup> in cement mortar 1:4 (1 cement : 4 coarse sand), R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation in cement concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size) inside plastering 12mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement complete as per standard design :Inside size 90x80 cm and 45 cm deep including RCC cover with frame 450x600 mm internal dimensions.</li> </ul>
			<ul style="list-style-type: none"> <li>• All Sanitary item Make Must Be :- Hindware, parryware, Jaguar</li> </ul>
	Acoustical Suspended Ceiling System (FF to TF)		<ul style="list-style-type: none"> <li>• Proving and fixing Acoustical Suspended Ceiling System made of GRG Glass fibre reinforced gypsum tiles with Micro look edge and size 595x595x12mm as approved by Engineer-In-charge, in true Horizontal Level Suspended on inter locking metal grid of hot dipped galvanized steel sections (galvanized @120 gsm/sqm, both side inclusive) consisting of main "T" Runner with suitably spaced joints to get required length and of size 15x32mm made from 0.30 thick</li> </ul>

			<p>(minimum) sheet, spaced at 1200mm centre to centre and cross "T" of size 15x32mm made of 0.30 thick (minimum) sheet, 1200 mm long spaced between main "T" at 600mm centre to centre to form grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 15x32mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 14x20mm and laying false ceiling tiles of approved texture in the grid, cutting/ making opening for services like diffusers, grills, light fitting, fixtures, smoke detectors etc. wherever required. Main "T" runner to be suspended from ceiling using GI slotted cleats of size 27x37x25x1.6mm fixed to ceiling with 12.5mm dia and 50 mm long dash fasteners, 4mm dia GI adjustable rods with galvanized butterfly level clips of size 85x30x0.8 mm spaced at 1200mm center to center along main "T". Bottom exposed width of 15mm of all "T" sections shall be pre-painted with polyester paint, all complete for all heights as per specification drawings or as directed by Engineer-In-Charge. The tiles should have Humidity resistance (RH) of 99%, Light Reflectance &gt;83%, Thermal Conductivity K=0.052-0.57w/mk, color white, fire performance UK class 0/ Class 1(BS 476 pt-6 and 7) in module size of 600x600x16 mm with Bio Block coating on the face of the tile, suitable for green building application, with recycled content of 38-41%.</p> <ul style="list-style-type: none"> <li>• With fully perforated 12 mm thick micro regular edged or 10 mm thick square edged GRG false ceiling tiles.</li> </ul>
	Building Elevation		<ul style="list-style-type: none"> <li>• Building elevation shall be strictly in accordance with the approved Drawings by the board. &amp; Directed by Engineer in Charge</li> </ul>
	Rate	:	<ul style="list-style-type: none"> <li>• All rates are as per the Schedule of rate in C.G. P.W.D. in force from 1<sup>st</sup> JAN.2015</li> </ul>
	Special Note		<ul style="list-style-type: none"> <li>• All Work Mentioned Here Must be Done by Contractor &amp; Those Work not Mentioned here Mistakenly And It present In Estimate Of The project &amp; Directed By Engineer In Charge Those Work Must be Done By Contractor Without Any Litigation.( All Work Must Be Done As per Estimate )</li> </ul>

	Firefighting system		<ul style="list-style-type: none"> <li>• <b>Above Ground M.S. Pipes (as per IS 3589/239 with Heavy Class Fittings):</b> Supply, installation, testing, and commissioning of ERW Class "B" M.S. pipes with welded joints. This includes cutting pipes to correct length, providing and welding flanges, fixing with clamps to M.S. brackets/hangers, making flanged joints with necessary nuts, bolts, gaskets, blind flanges, painting wherever required, etc.</li> </ul> <p>Specifications:</p> <ul style="list-style-type: none"> <li>• 100 NB, Medium Class</li> <li>• 80 NB, Medium Class</li> <li>• 25 NB, Medium Class</li> <li>• <b>Terrace Level Pump set:</b> Supply, installation, testing, and commissioning of electrically driven booster pump set as per specifications. The pump shall be horizontal centrifugal type, split casing, end suction, top discharge.</li> <li>• Pump casing: Bronze impeller</li> <li>• Shaft: Steel with gland packing</li> <li>• Motor: TEFC type, 2900 RPM, 415V, 50 cycle, 3-phase, Class "F" insulation, IP-55 protection</li> <li>• Motor Power: 20 HP with automatic star-delta starter of suitable capacity</li> <li>• Under voltage trip with overload and single-phase prevention</li> </ul> <p>Common base frame of required size for pump fabricated from M.S. channel, foundation bolts, vibration damping arrangement, coupling and coupling guard, etc., as required.</p> <p>Foundation:</p> <ul style="list-style-type: none"> <li>• Cement concrete foundation of minimum 250 mm height above finished floor level with nose framing</li> </ul> <p><b>Capacity:</b> 54 Cu.m per hour at 40 M head.</p>
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<b>GENERAL SPECIFICATION FOR G-Type 2BHK (S+6)OFFICE BUILDING</b>			
	<b>Name of Work</b>	<b>:</b>	<b>THE CONSTRUCTIONS OF G-Type 2BHK (S+6)OFFICE UNDER REDEVELOPMENT YOJANA AT KAILASH NAGAR RAJNANDGAON (C.G.)</b>
		<b>:</b>	<b>Following provision have been made in this Building.</b>
1	Built-up area (as per attached drawing) per unit	:	<ul style="list-style-type: none"> <li>• STILT.F Built-up Area :350.00 SQMT</li> <li>• F.F. TO T.F. Built-up Area : 2100.00 SQMT</li> <li>• TOTAL Built up Area : 2450.00 SQMT</li> <li>• Structural Drawing should be prepared by contractor himself and approved by N.I.T. in consideration with ( S+6) Building.</li> </ul>
2	Required plinth height above Modified Ground level	:	<ul style="list-style-type: none"> <li>• Plinth Height of building from Final Road level, should be not less than 0.20 meter Or As Per Site Condition &amp; Directed By Engineer in Charge</li> </ul>
3	Foundation	:	<ul style="list-style-type: none"> <li>• As per Approved Structural Drawing By NIT Which Prepared by Contractor Himself and Approved by N.I.T. in consideration with ( S+6) Building.</li> </ul>
6	Plinth	:	<ul style="list-style-type: none"> <li>• Column Upto plinth With Necessary Tie Beam at plinth Casting with M 25 Grade design mix reinforced cement concrete using batching plant, transit mixer and concrete pump, in all works upto plinth level.</li> <li>• Plinth filling as per site condition From N.G.L. to M.G.L. damp proof course (upto 50mm thick) with plain cement concrete 1:2:4 (1 cement : 2 coarse sands : 4 graded crushed stone aggregate 20mm nominal size) With 150 mm 1:4:8 (1 cement : 4 coarse sands : 8 graded stone aggregate 40mm nominal size) Base.</li> </ul>
7	Plinth Filling	:	<ul style="list-style-type: none"> <li>• If excavated soil or part of Excavated soil seems to be good for filling, same shall be refilled in foundation pit as per direction of Engineer In charge and plinth shall be filled from ground level to DPC level using only murrum/Sand /Crushed Stone Dust and Outer plot area will be levelled by murrum filling. upto final road level</li> <li>• Balance unused excavated soil to be disposed to a distance of not less than 1.00 km from the site or used for site levelling as directed by Engineer - in - charge as well as refilling and dressing completed around plot boundary and outer side of plot.</li> </ul>

8	Anti-termite treatment			<ul style="list-style-type: none"> <li>Diluting chemical emulsion (chlorpyrifos/ lindane) in water as per manufacturers recommendation and injecting for pre-constructional curative cum preventive anti-termite treatment:(Five-year service guarantee bond to be signed by contractor)Surface treatment by spreading emulsion under floor, over the plinth area before laying base concrete @ 5 litres / sqm</li> </ul>
8	Superstructure :			<ul style="list-style-type: none"> <li>R.C.C. Column , Beam &amp; Slab with M25 Grade design mix reinforced cement concrete using batching plant, transit mixer and concrete pump, in all works in the superstructure above plinthlevel for every floor.</li> <li>Ceiling height 3.325 meter from DPC level to roof slab top level In S.F., F.F., S.F., T.F. RCC Frame Structure with M - 25 Grade Design Mix reinforced cement concrete.</li> <li>All R.C.C. sun - shades [Chhajja] shall be casted with plain face and bottom surface with drip mould and smooth quarter round cement concrete surface [Haller] at top with cement concrete M - 25.</li> <li>All parapet column upto 0.9-meter height in roof with proper plaster ,putty, painting. RCC Approach slab over drain to entrance in building.</li> </ul>
9	Masonry work			<ul style="list-style-type: none"> <li>Brick work with modular fly-ash lime bricks (FaLG Bricks) in CM 1:6 has been provided in 20 cm Wall.</li> <li>Brick work with Flyash brick in CM 1:4 has been provided in 10 cm wall with 80 mm thick RCC Bend at Sill &amp; providing and placing 2 NOS. 8MM DIA MS bars reinforcement at every third course of half brick masonry work.</li> <li>Lintel beam should be provided at lintel level at all brick masonry work Wall. 20 cm. &amp; 10 cm</li> </ul>
	Plastering :			<ul style="list-style-type: none"> <li>12mm thick plaster for smooth side In Cement Mortar 1:5 (1 cement : 5 fine sand).</li> <li>15mm thick plaster for rough side In Cement Mortar 1:4 (1 cement : 4 fine sand).</li> <li>6mm thick plaster for ceiling In Cement mortar 1:4 (1 cement : 4 fine sand) has been used in this building.</li> <li>Chicken mesh weighting not less than 250 gms/ sqm as per IS : specification in the required width with 40mm long steel nails on vertical and horizontal surface near R.C.C. and brick walls</li> </ul>

				<p>junctions including scaffolding and all lead and lifts at Column Beam Junction both side plaster.</p> <ul style="list-style-type: none"> <li>• mixing water proofing material in outer cement plaster</li> </ul> <p>Note-)18mm thick plaster in elevation plaster work must be done in 2 layer first 12mm in 1:5 cement mortar and second 6mm thick in 1:3 cement mortar.</p>
10	Flooring	:	(i)	<ul style="list-style-type: none"> <li>• Providing and laying DOUBLE/MULTI CHARGE (minimum 2.0 mm thick laying) VIRTRIFIED floor tiles Size 800x800mm thickness 9 to 10mm in G.F &amp; F.F., Bedroom, Dining, Drawing Room, Family room, kitchen Including 150mm Skirting.(tiles brand Orient / Kajaria)</li> <li>• 15 mm thick Table rubbed polished Granite stone Granite stone grey/pink in Stair, landing, veranda, Kitchen platform.</li> <li>• 15 mm thick Table rubbed polished Granite stone black In All Around In Window, Door Sil and Ventilation section. All Other Things Directed By Engineer in Charge .</li> </ul>
			(ii)	<ul style="list-style-type: none"> <li>• Providing and Fixing rectified glazed ceramic wall/dado tiles of 1st quality Size 400x800mm thickness 7 to 9mm At Toilet wall height 2.10-meter, Kitchen Dado 0.75 meter,</li> <li>• wall tiles in Utility Area with 0.60-meter, Wash Basin wall.</li> <li>• Providing and Fixing rectified glazed ceramic floor tiles of 1st quality Size 600x600 mm thickness 8 to 9 mm in Toilet, Dress Area, Utility Floor &amp; First Floor covered Sit out, above porch, Terrace, Balcony.</li> </ul>
			(iii)	<ul style="list-style-type: none"> <li>• Providing &amp; laying 60mm thick precast interlocking concrete blocks of approved size Pigment Coloured (rubber mold) precast interlock concrete blocks in Stilt Floor, paved, porch Area &amp; Open Area.</li> </ul>
11	Doors (S.F. To T.F.)	:		<ul style="list-style-type: none"> <li>• Providing woodwork in frames of doors, windows, clerestory windows and other frames wrought framed Doors ( Sal, bijasal, bentek, khair, halduand ) fixed in position.</li> <li>• All Door shutters are 35 mm thick flush door shutters With teak ply veneering with vertical grains or cross bands and face veneers on both faces, except Doors exposed to sunlight are 40 mm thick paneled or glazed or paneled and glazed</li> </ul>

				<p>shutter frames for doors with Providing and fixing stainless steel Door fittings in All Door Fittings.</p> <ul style="list-style-type: none"> <li>• stainless steel Door fittings: -</li> <li>• 1) Stainless steel butt hinges with brass polished MS screws complete: 125x85x5.50 mm (Heavy Type)</li> <li>• 2) Providing and fixing stainless steel sliding door bolt with nuts and MS screws complete: 300x16mm</li> <li>• 3) Providing and fixing stainless steel door latch MS screws complete: 300x16x5 mm</li> <li>• 4) Providing and fixing bright finished stainless steel tower bolts (barrel type) with MS screws complete: 250x10mm &amp; 150x10mm</li> <li>• 5) Providing and fixing stainless steel door handles with MS screws complete: 125 mm</li> <li>• For Toilet Door - P.V.C. door frame of size 50x47mm with a wall thickness of 5mm, &amp; 30mm thick factory-made panel PVC door shutter with Stainless steel Door fittings</li> </ul>
	Windows (S.F. To T.F.)	:		<ul style="list-style-type: none"> <li>• Providing and fixing factory-made uPVC Three track three panels sliding window made of (big series) frame 116 x 45 mm &amp; sash 46 x 62 mm both having wall thickness of 2.3+-0.2 mm section.</li> <li>• For All Window With float glass panes of 5 mm thickness glass, and stainless-steel wire gauge shutter. M.S. Iron grills in windows. providing and fixing reflective glass panes in window, ventilator.</li> <li>• Providing and fixing "NETLON insect screens" with 25mm wide Hook and loop tape all around to wooden/ aluminium/ steel windows, ventilators and the like complete. All Other Things As per Directed by Engineer in Charge</li> </ul>
	Steel Work	:		<ul style="list-style-type: none"> <li>• Thermo-Mechanically treated bars FE 415 D Used in All RCC Work.(GK/Goel/Nakoda)</li> <li>• M.S. Iron grills in windows, Ventilators to be Provided.</li> <li>• Providing stainless steel SS Grade 204 Railing in Stair S.F. To T.F. As per Drawing Design &amp; Directed by Engineer in Charge</li> </ul>
	Painting	:		<ul style="list-style-type: none"> <li>• All woodwork French sprit polish on new woodwork after preparing the surface by rubbing down smooth with sandpapers, covering the knots, if visible applying a coat of wood filler cleaning the surface applying 50 or more coats of</li> </ul>

			<p>French spirit polish till the surface gives high gloss.</p> <ul style="list-style-type: none"> <li>• Steel work is painted with minimum 2 Coats Glossy finish Enamel paint in al surface applying @ 0.75 lit/ 10 Sqm up to required finish as per relevant I.S. code 2932: 2013 of (Product such as Asian Apcolite Premium Enamel Dulux Promise Premium Enamel Nerolac Synthetic Enamel, Opus Prime enamel ).</li> <li>• Applying one coat of cement primer on wall surface (applied @ 0.80 Liters/10 sqm) complete.</li> <li>• Apply 2mm thick putty (like Birla wall care, Alltek Superfine W/R of (NCL), Asian, ICI, Nerolac, J.K. wall putty) on inner walls and Inner and Outer walls.</li> <li>• Inner walls painted Premium plastic emulsion paint with roller application minimum three coats applied @ 0.75 lit / 10Sqm up to final finish as per relevant I.S. Code 15489:2013 Type -1 Class D &amp; C ( Glossy and Semi Glossy Finish) of required shade (Product such as Asian Acolyte Premium , Dulux Super Cover, Berger Easy Clean Nippon Breezee Metrex Gold, Opus I-50 / Calista) inclusive of providing abro tape on edges and article and cleaning of door, windows, floor and surface as required with all tools tackles and labour etc. complete for the work.(with 3 year Warranty)</li> <li>• Outer wall Painted With acrylic modified resin EXTERIOR TEXTURED with special quality silica quartz plaster as an intermediate coating on external surface giving protective layer and decorative finish on plastered surface in approved design and shade (product such as Asian Apex Series Duracast Dulux weather shield sand tax creation) as per manufacturer's specifications inclusive of providing abro tape on edges and article and cleaning of door, windows, floor and surface as required with all tools tackles and labour etc. for the complete work <b>Brands can be (Asian / Nippon / Dulux)</b></li> </ul>
	Terrace Flooring & Water Proofing		<ul style="list-style-type: none"> <li>• Providing and laying Crazy ceramic tile flooring, with under layer 12 mm thick cement mortar 1:4 (1 cement:4 coarse sand), including providing and mixing water proofing material in mortar @ 1 kg per 50 kg of cement, all complete as per direction of Engineer-in-charge.</li> </ul>

			<ul style="list-style-type: none"> <li>• Toilet Duct water proofing treatment in sunken portion of WCs, bathroom, kitchen etc., by applying cement slurry mixed with water proofing cement compounding)</li> <li>• First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm. This layer will be allowed to air cure for 4 hours.</li> <li>• Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound@ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours. The rate includes treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry.(Asian water proofing brand recommended)</li> </ul>
	Rain water		<ul style="list-style-type: none"> <li>• Provision of PVC Rainwater pipe has given in the building with clamps &amp; Providing and fixing filter of 1000 litre capacity for roof top rainwater harvesting .</li> </ul>
	Sanitary		<ul style="list-style-type: none"> <li>• 1)Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot &amp; cold-water supply including all CPVC plain &amp; brass threaded fittings. This included jointing of pipes &amp; fittings with one step CPVC solvent cement, trenching, refilling &amp; testing of joints complete as per direction of Engineer in Charge. External work :-15 mm,25mm,32mm,40mm,50mm nominal outer dia pipes</li> <li>• 2)Providing and fixing brass/ gun metal gate valve with C.I. wheel of approved quality (screwed end):as per direction of Engineer in Charge.</li> <li>• 3) Cutting holes upto 15x15 cm in R.C.C. floors and roofs for passing drainpipe etc. and repairing the hole after insertion of drainpipe etc. with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including finishing complete so as to make it leak proof.</li> <li>• 4) Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot &amp; cold-water supply including all CPVC plain &amp; brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes &amp; fittings with one step CPVC solvent cement and the cost of cutting chases and making</li> </ul>

			<p>good the same including testing of joints complete as per direction of Engineer in Charge</p> <ul style="list-style-type: none"> <li>• 5)Cutting holes upto 30x30 cm in walls including making good the same :</li> <li>• 6)Providing and fixing 15 mm nominal bore C.P. brass fittings of approved make and conforming to IS:8931 including C.P. brass extension if required: <b>Bib cock (400 grams), Long body bib cock (500 grams ) For Sink 345x445 mm bowl depth 200 mm. Piller Cock (400 grams), Two way bib cock (800 grams), Stop cock (concealed) (600 grams), Long nose bib cock (500 grams),Angle valve for basin mixer and geyser points (450 grams) ,Bottle trap set with extension pipes, , Shower rose (revolving type) (150mm),</b></li> </ul>
			<ul style="list-style-type: none"> <li>• Providing and fixing 15 mm nominal bore C.P. brass fittings of approved make and conforming to IS:8931 including C.P. brass extension if required: <b>Wall mixer with elegant knob (1400 grams), Health faucet (hand jet) with flexible connection pipe (for WC)</b></li> <li>• 7)Providing and fixing stainless steel drain Jali of approved make/quality.</li> <li>• 8)Providing and fixing water closet squatting pan (<b>Indian type W.C. pan</b> ), 100mm sand cast Iron P or S trap, 10 litre low level P.V.C. flushing cistern (same color) conforming to IS : 7231, with flush bend and other fittings <b>White Orissa pattern W.C. pan of size 580x440 mm</b></li> <li>• Providing and fixing <b>vitreous China water closet (European type W.C. pan)</b> with white ISI marked plastic seat and lid, 10 litre low level white P.V.C. flushing cistern (same colour), conforming to IS : 7231, with all fittings</li> <li>• 9)Providing and fixing vitreous <b>China wash basin</b> with C.I. brackets, 32 mm C.P. brass waste of standard pattern, including painting of brackets, cutting and making good the walls wherever required :White Size 550x450 mm</li> <li>• 10)Providing and fixing <b>Stainless Steel</b> A ISI 304 (18/8) kitchen sink without drain board as per IS 13983 with C.I. brackets and stainless-steel plug 40 mm including painting of fittings and brackets, cutting and making good the walls wherever required :345x445 mm bowl depth 200 mm..</li> </ul>

				<ul style="list-style-type: none"> <li>• 11) Providing and fixing 15 mm nominal bore unplasticized PVC connection pipe with PTMT nuts and PVC bush of approved quality and colour: 45 CM length</li> <li>• 14) Providing and placing on terrace <b>polyethylene water storage tank</b> ISI : 12701 marked with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank 1000 litre.</li> <li>• 12) Providing and fixing on wall face or under floor UV stabilized Unplasticized Rigid PVC pipes (single socketed) having 3.2mm wall thickness conforming to IS : 13592 (4kg/sqcm) including required couplers, jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion etc complete. 75 mm dia pipe. &amp; 110 mm dia pipe.</li> <li>• 13) Providing and fixing on wall face UV stabilized Unplasticized - PVC moulded fittings/ accessories having 3.2mm wall thickness for Rigid PVC pipes conforming to IS : 13592 (heavy) jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion. Tee/ Tee with door/ Bend 45°/ Bend 90° : 75 mm &amp; 110 mm, Double "Y" with or without door 75 mm &amp; 110 mm, Vent Covel 75 mm &amp; 110 mm, Nahani trap 110x75mm</li> </ul>
				<ul style="list-style-type: none"> <li>• 14) Providing and fixing UV stabilized Unplasticized -PVC pipe clips of approved design to Rigid PVC pipes by means of 50x50x50mm hard wood plugs, screwed with M.S. screws of required length including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete. 75 mm &amp; 110 mm</li> <li>• 15) Providing and fixing M.S. holder-bat clamps of approved design to Sand Cast iron/cast iron (spun) pipe embedded in and including cement concrete blocks 10x10x10cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) including cost of cutting holes and making good the walls etc. : For 100 mm dia pipe &amp; For 75 mm dia pipe</li> <li>• 16) Providing and fixing filter of minimum 100 litre capacity for roof top rain water harvesting through tube well consisting of two layered HDPE tank with five layers (each layers of minimum 100 mm) consist of coarse sand, 4mm, 6mm, 8mm &amp;</li> </ul>

			<p>12 mm gravels with stainless steel wire mesh fixed between each layer with suitable length and sufficient numbers of 110 mm dia PVC pipe pieces in the bottom of tank to support the above layer including fixing of inlet and out let P.V.C. pipe of required diameter upto 2 meter length on each side, Cement Concrete platform of required size complete as directed by Engineer in charge. (excluding cost of tubewell and inlet and outlet pipe beyond 2 meter)</p> <ul style="list-style-type: none"> <li>• 17) Providing and fixing square-mouth S.W. gully trap grade 'A' complete with C.I. grating brick masonry chamber with well burnt modular clay bricks crushing strength not less than 35kg/cm<sup>2</sup>, water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design :180x150 mm size P type</li> <li>• 18) Constructing brick masonry manhole with well burnt modular clay bricks crushing strength not less than 35kg/cm<sup>2</sup> in cement mortar 1:4 (1 cement : 4 coarse sand), R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation in cement concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size) inside plastering 12mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement complete as per standard design :Inside size 90x80 cm and 45 cm deep including RCC cover with frame 450x600 mm internal dimensions.</li> </ul>
	Fire Fighting		<ul style="list-style-type: none"> <li>• Designed elevated overhead RCC Water tank. Tank bottom Slab should be clear 60 cm From The Roof Slab as per norms of firefighting Approve by Engineer In Charge</li> <li>•</li> </ul>
	Building Elevation		<ul style="list-style-type: none"> <li>• Building elevation shall be strictly in accordance with the approved Drawings by the board. &amp;Directed by Engineer In Charge</li> </ul>
	Rate	:	<ul style="list-style-type: none"> <li>• All rates are as per the Schedule of rate in C.G. P.W.D. in forced from 1<sup>st</sup> JAN.2015</li> </ul>

	Special Note		<ul style="list-style-type: none"> <li>All Work Mentioned Here Must be Done by Contractor &amp; Those Work not Mentioned here Mistakenly And It present In Estimate Of The project &amp; Directed By Engineer In Charge Those Work Must be Done By Contractor Without Any Litigation.( All Work Must Be Done As per Estimate )</li> </ul>
	Firefighting system		<ul style="list-style-type: none"> <li><b>Above Ground M.S. Pipes (as per IS 3589/239 with Heavy Class Fittings):</b> Supply, installation, testing, and commissioning of ERW Class "B" M.S. pipes with welded joints. This includes cutting pipes to correct length, providing and welding flanges, fixing with clamps to M.S. brackets/hangers, making flanged joints with necessary nuts, bolts, gaskets, blind flanges, painting wherever required, etc.</li> </ul> <p>Specifications:</p> <ul style="list-style-type: none"> <li>100 NB, Medium Class</li> <li>80 NB, Medium Class</li> <li>25 NB, Medium Class</li> </ul> <ul style="list-style-type: none"> <li><b>Terrace Level Pump set:</b> Supply, installation, testing, and commissioning of electrically driven booster pump set as per specifications. The pump shall be horizontal centrifugal type, split casing, end suction, top discharge.</li> <li>Pump casing: Bronze impeller</li> <li>Shaft: Steel with gland packing</li> <li>Motor: TEFC type, 2900 RPM, 415V, 50 cycle, 3-phase, Class "F" insulation, IP-55 protection</li> <li>Motor Power: 20 HP with automatic star-delta starter of suitable capacity</li> <li>Under voltage trip with overload and single-phase prevention</li> </ul> <p>Common base frame of required size for pump fabricated from M.S. channel, foundation bolts, vibration damping arrangement, coupling and coupling guard, etc., as required.</p> <p>Foundation:</p> <ul style="list-style-type: none"> <li>Cement concrete foundation of minimum 250 mm height above finished floor level with nose framing</li> </ul> <p><b>Capacity:</b> 54 Cu.m per hour at 40 M head.</p>

<b>GENERAL SPECIFICATION FOR H-Type 2BHK (S+6)OFFICE BUILDING</b>			
	<b>Name of Work</b>	<b>:</b>	<b>THE CONSTRUCTIONS OF H-Type 2BHK (S+6)OFFICE UNDER REDEVELOPMENT YOJANA AT KAILASH NAGAR RAJNANDGAON (C.G.)</b>
		<b>:</b>	<b>Following provision have been made in this Building.</b>
1	Built-up area (as per attached drawing) per unit	:	<ul style="list-style-type: none"> <li>• STILT.F Built-up Area :224.77 SQMT</li> <li>• F.F. TO T.F. Built-up Area : 1348.62.00 SQMT</li> <li>• TOTAL Built up Area : 1573.39 SQMT</li> <li>• Structural Drawing should be prepared by contractor himself and approved by N.I.T. in consideration with ( S+6) Building.</li> </ul>
2	Required plinth height above Modified Ground level	:	<ul style="list-style-type: none"> <li>• Plinth Height of building from Final Road level, should be not less than 0.20 meter Or As Per Site Condition &amp; Directed By Engineer in Charge</li> </ul>
3	Foundation	:	<ul style="list-style-type: none"> <li>• As per Approved Structural Drawing By NIT Which Prepared by Contractor Himself and Approved by N.I.T. in consideration with ( S+6) Building.</li> </ul>
6	Plinth	:	<ul style="list-style-type: none"> <li>• Column Upto plinth With Necessary Tie Beam at plinth Casting with M 25 Grade design mix reinforced cement concrete using batching plant, transit mixer and concrete pump, in all works upto plinth level.</li> <li>• Plinth filling as per site condition From N.G.L. to M.G.L. damp proof course (upto 50mm thick) with plain cement concrete 1:2:4 (1 cement : 2 coarse sands : 4 graded crushed stone aggregate 20mm nominal size) With 150 mm 1:4:8 (1 cement : 4 coarse sands : 8 graded stone aggregate 40mm nominal size) Base.</li> </ul>
7	Plinth Filling	:	<ul style="list-style-type: none"> <li>• If excavated soil or part of Excavated soil seems to be good for filling, same shall be refilled in foundation pit as per direction of Engineer In charge and plinth shall be filled from ground level to DPC level using only Murrum /Sand /Crushed Stone Dust and Outer plot area will be levelled by murrum filling. upto final road level</li> <li>• Balance unused excavated soil to be disposed to a distance of not less than 1.00 km from the site or used for site levelling as directed by Engineer - in - charge as well as refilling and dressing</li> </ul>

				completed around plot boundary and outer side of plot.
8	Superstructure	:		<ul style="list-style-type: none"> <li>R.C.C. Column , Beam &amp; Slab with M25 Grade design mix reinforced cement concrete using batching plant, transit mixer and concrete pump, in all works in the superstructure above plinthlevel for every floor.</li> <li>Ceiling height 3.325 meter from DPC level to roof slab top level In S.F., F.F., S.F., T.F. RCC Frame Structure with M - 25 Grade Design Mix reinforced cement concrete.</li> <li>All R.C.C. sun - shades [Chhajja] shall be cast with plain face and bottom surface with drip Mold and smooth quarter round cement concrete surface [Haller] at top with cement concrete M - 25.</li> <li>All parapet column upto 0.9m height in roof with proper plaster ,putty, painting. RCC Approach slab over drain to entrance in building.</li> </ul>
9	Masonry work			<ul style="list-style-type: none"> <li>Brick work with modular fly-ash lime bricks (FaLG Bricks) in CM 1:6 has been provided in 20 cm Wall.</li> <li>Brick work with Flyash brick in CM 1:4 has been provided in 10cm wall with 80 mm thick RCC Bend at Sill &amp; providing and placing 2 NOS. 8MM DIA MS bars reinforcement at every third course of half brick masonry work.</li> <li>Lintel beam should be provided at lintel level at all brick masonry work Wall. 20 cm. &amp; 10 cm</li> </ul>
	Plastering	:		<ul style="list-style-type: none"> <li>12mm thick plaster for smooth side In Cement Mortar 1:5 (1 cement : 5 fine sand).</li> <li>15mm thick plaster for rough side In Cement Mortar 1:4 (1 cement : 4 fine sand).</li> <li>6mm thick plaster for ceiling In Cement mortar 1:4 (1 cement : 4 fine sand) has been used in this building.</li> <li>Chicken mesh weighting not less than 250 gms/ sqm as per IS : specification in the required width with 40mm long steel nails on vertical and horizontal surface near R.C.C. and brick walls junctions including scaffolding and all lead and lifts at Column Beam Junction both side plaster.</li> <li>mixing water proofing material in outer cement plaster</li> </ul> <p>Note-)18mm thick plaster in elevation plaster work must be done in 2 layer first 12mm in 1:5 cement</p>

				mortar and second 6mm thick in 1:3 cement mortar.
10	Flooring	:	(i)	<ul style="list-style-type: none"> <li>• Providing and laying DOUBLE/MULTI CHARGE (minimum 2.0 mm thick laying) VIRTRIFIED floor tiles Size 800x800mm thickness 9 to 10mm in G.F &amp; F.F., Bedroom, Dining, Drawing Room, Family room, kitchen Including 150mm Skirting. <b>(tiles brand Orient / Kajaria)</b></li> <li>• 15 mm thick Table rubbed polished Granite stone black In All Around in Window, Door Sil And Ventilation section Stair, landing, veranda, Kitchen platform. All Other Things Directed by Engineer in Charge.</li> </ul>
			(ii)	<ul style="list-style-type: none"> <li>• Providing and Fixing rectified glazed ceramic wall/dado tiles of 1st quality Size 400x800mm thickness 7 to 9mm At Toilet wall height 2.10-meter, Kitchen Dado 0.75 meter,</li> <li>• wall tiles in Utility Area with 0.60-meter, Wash Basin wall.</li> <li>• Providing and Fixing rectified glazed ceramic floor tiles of 1st quality Size 400x400mm thickness 7 to 8mm in Toilet, Dress Area, Utility Floor &amp; First Floor covered Sit out, above porch, Terrace, Balcony.</li> </ul>
			(iii)	<ul style="list-style-type: none"> <li>• Providing &amp; laying 60mm thick precast interlocking concrete blocks of approved size Pigment Coloured (rubber mold) precast interlock concrete blocks in Stilt Floor, paved, porch Area &amp; Open Area.</li> </ul>
11	Doors	:		<ul style="list-style-type: none"> <li>• Providing woodwork in frames of doors, windows, clerestory windows and other frames wrought framed Doors (Sal, bijasal, benteak, khair, halduand) fixed in position.</li> <li>• All Door shutters are 35 mm thick flush door shutters with teak ply veneering with vertical grains or cross bands and face veneers on both faces, except Doors exposed to sunlight are 40 mm thick panelled or glazed or panelled and glazed shutter frames for doors with Providing and fixing stainless steel Door fittings in All Door Fittings.</li> <li>• Main Door Providing and fixing Teak Wood 30 mm thick panelled or glazed or panelled and glazed shutter frames for doors</li> <li>• stainless steel Door fittings: -</li> </ul>

			<ul style="list-style-type: none"> <li>• Stainless steel butt hinges with brass polished MS screws complete:125x85x5.50 mm (Heavy Type)</li> <li>• Providing and fixing stainless steel sliding door bolt with nuts and MS screws complete: 300x16mm</li> <li>• Providing and fixing stainless steel door latch MS screws complete: 300x16x5 mm</li> <li>• Providing and fixing bright finished stainless steel tower bolts (barrel type) with MS screws complete: 250x10mm &amp; 150x10mm</li> <li>• Providing and fixing stainless steel door handles with MS screws complete: 125 mm</li> <li>• For Toilet Door - P.V.C. door frame of size 50x47mm with a wall thickness of 5mm, &amp; 30mm thick factory-made panel PVC door shutter with Stainless steel Door fittings</li> </ul>
	Windows	:	<ul style="list-style-type: none"> <li>• Providing and fixing factory-made uPVC Three track three panels sliding window made of (big series) frame 116 x 45 mm &amp; sash 46 x 62 mm both having wall thickness of 2.3+-0.2 mm section.</li> <li>• For All Window With float glass panes of 6 mm thickness glass, and stainless-steel wire gauge shutter. M.S. Iron grills in windows. providing and fixing reflective glass panes in window, ventilator.</li> <li>• All Other Things As per Directed By Engineer in Charge</li> </ul>
	Steel Work	:	<ul style="list-style-type: none"> <li>• Thermo-Mechanically treated bars FE 415 D Used in All RCC Work.(Primary producing Steel)</li> <li>• M.S. Iron grills in windows, Ventilators to be Provided.</li> <li>• Providing stainless steel SS Grade 204 Railing in Stair S.F. To T.F. As per Drawing Design &amp; Directed by Engineer in Charge</li> </ul>
	Painting	:	<ul style="list-style-type: none"> <li>• All woodwork French sprit polish on new woodwork after preparing the surface by rubbing down smooth with sandpapers, covering the knots, if visible applying a coat of wood filler cleaning the surface applying 50 or more coats of French spirit polish till the surface gives high gloss.</li> <li>• Steel work is painted with minimum 2 Coats Glossy finish Enamel paint in al surface applying @ 0.75 lit/ 10 Sqm up to required finish as per relevant I.S. code 2932: 2013 of (Product such</li> </ul>

			<p>as Asian Apcolite Premium Enamel Dulux Promise Premium Enamel Nerolac Synthetic Enamel, Opus Prime enamel ).</p> <ul style="list-style-type: none"> <li>• Applying one coat of cement primer on wall surface (applied @ 0.80 litres/10 sqm) complete.</li> <li>• Apply 2mm thick putty (like Birla wall care, Alltek Superfine W/R of (NCL), Asian, ICI, Nerolac, J.K. wall putty) on inner walls and Inner and Outer walls.</li> <li>• Inner walls painted Premium plastic emulsion paint with roller application minimum three coats applied @ 0.75 lit / 10Sqm up to final finish as per relevant I.S. Code 15489:2013 Type -1 Class D &amp; C ( Glossy and Semi Glossy Finish) of required shade (Product such as Asian Apcolite Premium , Dulux Super Cover, Berger Easy Clean Nippon Breezee Meter Gold, Opus I-50 / Calista) inclusive of providing abro tape on edges and article and cleaning of door, windows, floor and surface as required with all tools tackles and labour etc. complete for the work.(with 3 year Warranty)</li> <li>• Outer wall Painted With acrylic modified resin EXTERIOR TEXTURED with special quality silica quartz plaster as an intermediate coating on external surface giving protective layer and decorative finish on plastered surface in approved design and shade (product such as Asian Apex Series Duracast Dulux weather shield sand tax creation) as per manufacturer's specifications inclusive of providing abro tape on edges and article and cleaning of door, windows, floor and surface as required with all tools tackles and labour etc. for the Complete work(<b>Brands can be Asian / Nippon / Dulux</b>)</li> </ul>
	Terrace Flooring & Water Proofing		<ul style="list-style-type: none"> <li>• Providing and laying Crazy ceramic tile flooring, with under layer 12 mm thick cement mortar 1:4 (1 cement:4 coarse sand), including providing and mixing water proofing material in mortar @ 1 kg per 50 kg of cement, all complete as per direction of Engineer-in-charge.</li> <li>• Toilet Duct water proofing treatment in sunken portion of WCs, bathroom, kitchen etc., by applying cement slurry mixed with water proofing cement compounding)</li> <li>• First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @</li> </ul>

			<p>0.253 kg/sqm. This layer will be allowed to air cure for 4 hours.</p> <ul style="list-style-type: none"> <li>Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound@ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours. The rate includes treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry.(Asian water proofing brand recommended)</li> </ul>
	Rainwater		<ul style="list-style-type: none"> <li>Provision of PVC Rainwater pipe has given in the building with clamps &amp; Providing and fixing filter of 1000 litter capacity for roof top rain water harvesting .</li> </ul>
	Sanitary		<ul style="list-style-type: none"> <li>Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot &amp; cold-water supply including all CPVC plain &amp; brass threaded fittings. This included jointing of pipes &amp; fittings with one step CPVC solvent cement, trenching, refilling &amp; testing of joints complete as per direction of Engineer in Charge. External work :-15 mm,25mm,32mm,40mm,50mm nominal outer dia pipes</li> <li>Providing and fixing brass/ gun metal gate valve with C.I. wheel of approved quality (screwed end):as per direction of Engineer in Charge.</li> <li>Cutting holes upto 15x15 cm in R.C.C. floors and roofs for passing drainpipe etc. and repairing the hole after insertion of drain pipe. with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including finishing complete so as to make it leak proof.</li> <li>Providing and fixing Chlorinated sand soil vinyl Chloride (CPVC) pipes, having thermal stability for hot &amp; cold water to including all CPVC plain &amp; brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes &amp; fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge</li> <li>Cutting holes upto 30x30 cm in walls including making good the same :</li> <li>Providing and fixing 15 mm nominal bore C.P. brass fittings of approved make and conforming</li> </ul>

				to IS:8931 including C.P. brass extension if required: <b>Bib cock (400 grams), Long body bib cock (500 grams ) For Sink 345x445 mm bowl depth 200 mm. Piller Cock (400 grams), Two way bib cock (800 grams), Stop cock (concealed) (600 grams), Long nose bib cock (500 grams),Angle valve for basin mixer and geyser points (450 grams) ,Bottle trap set with extension pipes, , Shower rose (revolving type) (150mm),</b>
				<ul style="list-style-type: none"> <li>• Providing and fixing 15 mm nominal bore C.P. brass fittings of approved make and conforming to IS:8931 including C.P. brass extension if required: <b>Wall mixer with elegant knob (1400 grams), Health faucet (hand jet) with flexible connection pipe (for WC)</b></li> <li>• Providing and fixing stainless steel drain Jali of approved/quality.</li> <li>• Providing and fixing water closet squatting pan (<b>Indian type W.C. pan</b> ), 100mm sand cast Iron P or S trap, 10l low level P.V.C. flushing cistern (same color) conforming to IS : 7231, with flush bend and other fittings <b>White Orissa pattern W.C. pan of size 580x440 mm</b></li> <li>• Providing and fixing <b>vitreous China water closet (European type W.C. pan)</b> with white ISI marked plastic seat and lid, 10 litre low level white P.V.C. flushing cistern (same colour), conforming to IS : 7231, with all fittings</li> <li>• Providing and fixing vitreous <b>China wash basin</b> with C.I. brackets, 32 mm C.P. brass waste of standard pattern, including painting of brackets, cutting and making good the walls wherever required: White Size 550x450 mm</li> <li>• Providing and fixing <b>Stainless Steel A ISI 304 (18/8) kitchen sink</b> without drain board as per IS 13983 with C.I. brackets and stainless-steel plug 40 mm including painting of fittings and brackets, cutting and making good the walls wherever required :345x445 mm bowl depth 200 mm.</li> </ul>
				<ul style="list-style-type: none"> <li>• Providing and fixing 15 mm nominal bore unplasticized PVC connection pipe with PTMT nuts and PVC bush of approved quality and colour:45 CM length Providing and placing on terrace <b>polyethylene water storage tank</b> ISI : 12701 marked with cover and suitable locking arrangement and</li> </ul>

			<p>making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank 1000 litre.</p> <ul style="list-style-type: none"> <li>• Providing and fixing on wall face or under floor UV stabilized Unplasticized Rigid PVC pipes (single socketed) having 3.2mm wall thickness conforming to IS : 13592 (4kg/sqcm) including required couplers, jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion etc complete. 75 mm dia pipe. &amp; 110 mm dia pipe.</li> <li>• Providing and fixing on wall face UV stabilized Unplasticized - PVC molded fittings/ accessories having 3.2mm wall thickness for Rigid PVC pipes conforming to IS : 13592 (heavy) jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion. Tee/ Tee with door/ Bend 45°/ Bend 90° : 75 mm &amp; 110 mm, Double "Y" with or without door 75 mm &amp; 110 mm, Vent Covel 75 mm &amp; 110 mm, Nahani trap 110x75mm</li> </ul>
			<ul style="list-style-type: none"> <li>• Providing and fixing UV stabilized Unplasticized -PVC pipe clips of approved design to Rigid PVC pipes by means of 50x50x50mm hard wood plugs, screwed with M.S. screws of required length including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete. 75 mm &amp; 110 mm</li> <li>• Providing and fixing M.S. holder-bat clamps of approved design to Sand Cast iron/cast iron (spun) pipe embedded in and including cement concrete blocks 10x10x10cm of 1:2:4 mix (1 cement: 2 coarse sand : 4 graded stone aggregate 20mm nominal size) including cost of cutting holes and making good the walls etc. :For 100 mm dia pipe &amp; For 75 mm dia pipe</li> <li>• Providing and fixing filter of minimum 100 litre capacity for roof top rain water harvesting through tube well consisting of two layered HDPE tank with five layers (each layers of minimum 100 mm) consist of coarse sand, 4mm, 6mm, 8mm &amp; 12 mm gravels with stainless steel wire mesh fixed between each layer with suitable length and sufficient numbers of 110 mm dia PVC pipe pieces in the bottom of tank to support the above layer including fixing of inlet and out let P.V.C. pipe of required</li> </ul>

			<p>diameter upto 2 meter length on each side, Cement Concrete platform of required size complete as directed by Engineer in charge. (excluding cost of tubewell and inlet and outlet pipe beyond 2 meter)</p> <ul style="list-style-type: none"> <li>• Providing and fixing square-mouth S.W. gully trap grade 'A' complete with C.I. grating brick masonry chamber with well burnt modular clay bricks crushing strength not less than 35kg/cm<sup>2</sup>, water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design :180x150 mm size P type</li> <li>• 18)Constructing brick masonry manhole with well burnt modular clay bricks crushing strength not less than 35kg/cm<sup>2</sup> in cement mortar 1:4 (1 cement : 4 coarse sand), R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation in cement concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size) inside plastering 12mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement complete as per standard design :Inside size 90x80 cm and 45 cm deep including RCC cover with frame 450x600 mm internal dimensions.</li> </ul>
			<ul style="list-style-type: none"> <li>• All Sanitary items Make Must Be :- Kohler, Jaguar</li> </ul>
	Building Elevation		<ul style="list-style-type: none"> <li>• Building elevation shall be strictly in accordance with the approved Drawings by the board. &amp;Directed by Engineer in Charge</li> </ul>
	Rate	:	<ul style="list-style-type: none"> <li>• All rates are as per the Schedule of rate in C.G. P.W.D. in forced from 1<sup>st</sup> JAN.2015</li> </ul>
	Special Note		<ul style="list-style-type: none"> <li>• All Work Mentioned Here Mus be Done By Contractor &amp; Those Work not Mentioned here Mistakenly and It present In Estimate of The project &amp; Directed By Engineer In Charge Those Work Must be Done By Contractor Without Any Litigation.( All Work Must Be Done As per Estimate)</li> </ul>

	Firefighting system		<ul style="list-style-type: none"> <li>• <b>Above Ground M.S. Pipes (as per IS 3589/239 with Heavy Class Fittings):</b> Supply, installation, testing, and commissioning of ERW Class "B" M.S. pipes with welded joints. This includes cutting pipes to correct length, providing and welding flanges, fixing with clamps to M.S. brackets/hangers, making flanged joints with necessary nuts, bolts, gaskets, blind flanges, painting wherever required, etc.</li> </ul> <p>Specifications:</p> <ul style="list-style-type: none"> <li>• 100 NB, Medium Class</li> <li>• 80 NB, Medium Class</li> <li>• 25 NB, Medium Class</li> </ul> <ul style="list-style-type: none"> <li>• <b>Terrace Level Pump set:</b> Supply, installation, testing, and commissioning of electrically driven booster pump set as per specifications. The pump shall be horizontal centrifugal type, split casing, end suction, top discharge.</li> <li>• Pump casing: Bronze impeller</li> <li>• Shaft: Steel with gland packing</li> <li>• Motor: TEFC type, 2900 RPM, 415V, 50 cycle, 3-phase, Class "F" insulation, IP-55 protection</li> <li>• Motor Power: 20 HP with automatic star-delta starter of suitable capacity</li> <li>• Under voltage trip with overload and single-phase prevention</li> </ul> <p>Common base frame of required size for pump fabricated from M.S. channel, foundation bolts, vibration damping arrangement, coupling and coupling guard, etc., as required.</p> <p>Foundation:</p> <ul style="list-style-type: none"> <li>• Cement concrete foundation of minimum 250 mm height above finished floor level with nose framing</li> </ul> <p><b>Capacity:</b> 54 Cu.m per hour at 40 M head.</p>
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<b>GENERAL SPECIFICATION FOR E TYPE BUNGALOW</b>				
	<b>Name of Work</b>	<b>:</b>		<b>THE CONSTRUCTIONS OF E TYPE BUNGALOW UNDER REDEVELOPMENT YOJANA AT KAILASH NAGAR RAJNANDGAON (C.G.)</b>
		<b>:</b>		<b>Following provision have been made in this Building.</b>
1	Built-up area (as per attached drawing) per unit	:		<ul style="list-style-type: none"> <li>• Total Plot Area :450 SQMT</li> <li>• TOTAL Built up Area : 246 SQMT</li> <li>• Structural Drawing should be prepared by the contractor himself and approved by N.I.T. in consideration with Building.</li> </ul>
2	Required plinth height above Modified Ground level	:		<ul style="list-style-type: none"> <li>• Plinth Height of building from Final Road level, should be not less than 0.90m Or as Per Site Condition &amp; Directed By Engineer in Charge</li> </ul>
3	Foundation	:		<ul style="list-style-type: none"> <li>• As per Approved Structural Drawing by NIT Which Prepared by Contractor Himself and Approved by N.I.T. in consideration with Building.</li> </ul>
6	Plinth	:		<ul style="list-style-type: none"> <li>• Column Upto plinth With Necessary Tie Beam at plinth Casting with M 25 Grade design mix reinforced cement concrete using batching plant, transit mixer and concrete pump, in all works upto plinth level.</li> <li>• Plinth filling as per site condition From N.G.L. to M.G.L. damp proof course (upto 50mm thick) with plain cement concrete 1:2:4 (1 cement : 2 coarse sands : 4 graded crushed stone aggregate 20mm nominal size) With 100 mm 1:3:6 (1 cement : 3 coarse sands : 6 graded stone aggregate 40mm nominal size) Base at Plinth Level.</li> </ul>
7	Plinth Filling	:		<ul style="list-style-type: none"> <li>• If excavated soil or part of Excavated soil seems to be good for filling, same shall be refilled in foundation pit as per direction of Engineer In charge and plinth shall be filled from ground level to DPC level using only Murrum /Sand /Crushed Stone Dust and Outer plot area will be levelled by murrum filling. upto final road level</li> <li>• Balance unused excavated soil to be disposed to a distance of not less than 1.00 km from the site or used for site levelling as directed by Engineer - in - charge as well as refilling and dressing completed around plot boundary and outer side of plot.</li> </ul>

8	Superstructure	:		<ul style="list-style-type: none"> <li>R.C.C. Column , Beam &amp; Slab with M25 Grade design mix reinforced cement concrete using batching plant, transit mixer and concrete pump, in all works in superstructure above plinthlevel for every floor.</li> <li>Ceiling height 3.50 meter from DPC level upto roof slab level In G.F., F.F., RCC Frame Structure with M - 25 Grade Design Mix reinforced cement concrete.</li> <li>All R.C.C. sun - shades [Chhajja] shall be casted with plain face and bottom surface with drip mould and smooth quarter round cement concrete surface [Haller] at top with cement concrete M - 25.</li> <li>All parapet column upto 0.9-meter height in roof with proper plaster ,putty, painting. RCC Approach slab over drain to entrance in building.</li> </ul>
9	Masonry work	:		<ul style="list-style-type: none"> <li>Brick work with modular fly-ash lime bricks (FaLG Bricks) in CM 1:6 has been provided in 20 cm Wall.</li> <li>Brick work with Flyash brick in CM 1:4 has been provided in 10 cm wall with 80 mm thick RCC Bend at Sill &amp; providing and placing 2 NOS. 8MM DIA MS bars reinforcement at every third course of half brick masonry work.</li> <li>Lintel beam should be provided at lintel level at all brick masonry work Wall. 20 cm. &amp; 10 cm</li> </ul>
	Plastering	:		<ul style="list-style-type: none"> <li>12mm thick plaster for smooth side In Cement Mortar 1:5 (1 cement : 5 fine sand).</li> <li>15mm thick plaster for rough side In Cement Mortar 1:4 (1 cement : 4 fine sand).</li> <li>6mm thick plaster for ceiling In Cement mortar 1:4 (1 cement : 4 fine sand) has been used in this building.</li> <li>Chicken mesh weighting not less than 250 gms/ sqm as per IS : specification in the required width with 40mm long steel nails on vertical and horizontal surface near R.C.C. and brick walls junctions including scaffolding and all lead and lifts at Column Beam Junction both side plaster.</li> <li>mixing water proofing material in outer cement plaster</li> </ul> <p>Note-)18mm thick plaster in elevation plaster work must be done in 2 layer first 12mm in 1:5 cement mortar and second 6mm thick in 1:3 cement mortar.</p>

10	Flooring	:	(i)	<ul style="list-style-type: none"> <li>• Providing and laying DOUBLE/MULTI CHARGE (minimum 2.0 mm thick laying) VIRTRIFIED floor tiles Size 800x800mm thickness 9 to 10mm in G.F &amp; F.F., Bedroom, Dining, Drawing Room, Family room, kitchen Including 150mm Skirting. (tiles brand Orient / Kajaria/RAK)</li> <li>• 15 mm thick Table rubbed polished Granite stone Granite stone grey/pink in Stair, landing, veranda, Kitchen platform.</li> <li>• 15 mm thick Table rubbed polished Granite stone black In All Around In Window, Door Sil and Ventilation section. All Other Things Directed By Engineer in Charge.</li> </ul>
			(ii)	<ul style="list-style-type: none"> <li>• Providing and Fixing rectified glazed ceramic wall/dado tiles of 1st quality Size 300x600mm thickness 7 to 9mm At Toilet wall height 2.10-meter, Kitchen Dado 0.75 meter,</li> <li>• wall tiles in Utility Area with 0.60-meter, Wash Basin wall.</li> <li>• Providing and Fixing rectified glazed ceramic floor tiles of 1st quality Size 600x600mm thickness 7 to 8mm in Toilet, Dress Area, Utility Floor &amp; First Floor covered Sit out, above porch, Terrace, Balcony.</li> </ul>
			(iii)	<ul style="list-style-type: none"> <li>• Providing &amp; laying 60mm thick precast interlocking concrete blocks of approved size Pigment Coloured (rubber Mold) precast interlock concrete blocks in Parking area, &amp; Open Area Around Building.</li> <li>• Checkered terrazzo tiles 22 mm thick with graded marble chips of size upto 6mm in porch</li> </ul>
11	Doors	:		<ul style="list-style-type: none"> <li>• Providing woodwork in frames of doors, windows, clerestory windows and other frames wrought framed Doors (Sal, bijasal, bentek, khair, halduand) fixed in position.</li> <li>• All Door shutters are 35 mm thick flush door shutters with teak ply veneering with vertical grains or cross bands and face veneers on both faces, except Doors exposed to sunlight are 40 mm thick paneled or glazed or paneled and glazed shutter frames for doors with Providing and fixing stainless steel Door fittings in All Door Fittings.</li> <li>• stainless steel Door fittings:-</li> <li>• 1) Stainless steel butt hinges with brass polished MS screws complete: 125x85x5.50 mm (Heavy Type)</li> </ul>

				<ul style="list-style-type: none"> <li>• 2) Providing and fixing stainless steel sliding door bolt with nuts and MS screws complete: 300x16mm</li> <li>• 3) Providing and fixing stainless steel door latch MS screws complete: 300x16x5 mm</li> <li>• 4) Providing and fixing bright finished stainless steel tower bolts (barrel type) with MS screws complete: 250x10mm &amp; 150x10mm</li> <li>• 5) Providing and fixing stainless steel door handles with MS screws complete: 125 mm</li> <li>• For Toilet Door - P.V.C. door frame of size 50x47mm with a wall thickness of 5mm, &amp; 30mm thick factory-made panel PVC door shutter with Stainless steel Door fittings</li> </ul>
	Windows	:		<ul style="list-style-type: none"> <li>• Providing and fixing factory-made uPVC Three track three panels sliding window made of (big series) frame 116 x 45 mm &amp; sash 46 x 62 mm both having wall thickness of 2.3+0.2 mm section.</li> <li>• For All Window With float glass panes of 6 mm thickness glass, and stainless-steel wire gauge shutter. M.S. Iron grills in windows. providing and fixing reflective glass panes in window, ventilator.</li> <li>• Providing and fixing "NETLON insect screens" with 25mm wide Hook and loop tape all around to wooden/ aluminium/ steel windows, ventilators and the like complete. All Other Things As per Directed By Engineer in Charge</li> </ul>
	Steel Work	:		<ul style="list-style-type: none"> <li>• Thermo-Mechanically treated bars FE 415 D Used In All RCC Work.(Primary producing Steel)</li> <li>• M.S. Iron grills in windows, Ventilators to be Provided.</li> <li>• Providing stainless steel SS Grade 204 Railing in Stair S.F. To T.F. As per Drawing Design &amp; Directed By Engineer in Charge</li> </ul>
	Painting	:		<ul style="list-style-type: none"> <li>• All woodwork French spirit polish on new woodwork after preparing the surface by rubbing down smooth with sand papers, covering the knots, if visible applying a coat of wood filler cleaning the surface applying 50 or more coats of French spirit polish till the surface gives high gloss.</li> <li>• Steel work is painted with minimum 2 Coats Glossy finish Enamel paint in al surface applying @ 0.75 lit/ 10 Sqm up to required finish as per relevant I.S. code 2932: 2013 of (Product such</li> </ul>

			<p>as Asian Apcolite Premium Enamel Dulux Promise Premium Enamel Nerolac Synthetic Enamel, Opus Prime enamel ).</p> <ul style="list-style-type: none"> <li>• Applying one coat of cement primer on wall surface (applied @ 0.80 litres/10 sqm) complete.</li> <li>• Apply 2mm thick putty (like Birla wall care, Alltek Superfine W/R of (NCL), Asian, ICI, Nerolac, J.K. wall putty) on inner walls and Inner and Outer walls.</li> <li>• Inner walls painted Premium plastic emulsion paint with roller application minimum three coats applied @ 0.75 lit / 10Sqm up to final finish as per relevant I.S. Code 15489:2013 Type -1 Class D &amp; C ( Glossy and Semi Glossy Finish) of required shade (Product such as Asian Acolyte Premium , Dulux Super Cover, Berger Easy Clean Nippon Breezee Metrex Gold, Opus I-50 / Calista) inclusive of providing abro tape on edges and article and cleaning of door, windows, floor and surface as required with all tools tackles and labour etc. complete for the work.(with 3 year Warranty)</li> <li>• Outer wall Painted With acrylic modified resin EXTERIOR TEXTURED with special quality silica quartz plaster as an intermediate coating on external surface giving protective layer and decorative finish on plastered surface in approved design and shade (product such as Asian Apex Series Dura cast Dulux weather shield sand tax creation) as per manufacturer's specifications inclusive of providing Abro tape on edges and article and cleaning of door, windows, floor and surface as required with all tools tackles and labour etc. Complete for the work.(Brands can be Asian / Nippon / Dulux)</li> </ul>
	Terrace Flooring & Water Proofing		<ul style="list-style-type: none"> <li>• Providing and laying Crazy ceramic tile flooring, with under layer 12 mm thick cement mortar 1:4 (1 cement:4 coarse sand), including providing and mixing water proofing material in mortar @ 1 kg per 50 kg of cement, all complete as per direction of Engineer-in-charge.</li> <li>• Toilet Duct water proofing treatment in sunken portion of WCs, bathroom, kitchen etc., by applying cement slurry mixed with water proofing cement compound)</li> <li>• First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @</li> </ul>

			<p>0.253 kg/sqm. This layer will be allowed to air cure for 4 hours.</p> <ul style="list-style-type: none"> <li>• Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound@ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours. The rate includes treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry.(Asian water proofing brand recommended)</li> </ul>
	Rain water		<ul style="list-style-type: none"> <li>• Provision of PVC Rainwater pipe has given in the building with clamps &amp; Providing and fixing filter of 1000 litre capacity for roof top rainwater harvesting .</li> </ul>
	Sanitary		<ul style="list-style-type: none"> <li>• Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot &amp; cold-water supply including all CPVC plain &amp; brass threaded fittings. This included jointing of pipes &amp; fittings with one step CPVC solvent cement, trenching, refilling &amp; testing of joints complete as per direction of Engineer in Charge. External work :-15 mm,25mm,32mm,40mm,50mm nominal outer dia pipes</li> <li>• Providing and fixing brass/ gun metal gate valve with C.I. wheel of approved quality (screwed end):as per direction of Engineer in Charge.</li> <li>• Cutting holes upto 15x15 cm in R.C.C. floors and roofs for passing drainpipe etc. and repairing the hole after insertion of drainpipe etc. with cement concrete 1:2:4 (1 cement : 2 coarse sands: 4 graded stone aggregate 20 mm nominal size) including finishing complete to make it leak proof.</li> <li>• Providing and fixing Chlorinated sandpolyvinyl Chloride (CPVC) pipes, having thermal stability for hot &amp; cold-water supply including all CPVC plain &amp; brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes &amp; fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge</li> <li>• Cutting holes upto 30x30 cm in walls including making good the same :</li> </ul>

				<ul style="list-style-type: none"> <li>Providing and fixing 15 mm nominal bore C.P. brass fittings of approved make and conforming to IS:8931 including C.P. brass extension if required: <b>Bib cock (400 grams), Long body bib cock (500 grams ) For Sink 345x445 mm bowl depth 200 mm. Piller Cock (400 grams), Two way bib cock (800 grams), Stop cock (concealed) (600 grams), Long nose bib cock (500 grams),Angle valve for basin mixer and geyser points (450 grams) ,Bottle trap set with extension pipes, , Shower rose (revolving type) (150mm), for CPVC pipes (Astral / Supreme / Finolex) recommended</b></li> </ul>
				<ul style="list-style-type: none"> <li>Providing and fixing 15 mm nominal bore C.P. brass fittings of approved make and conforming to IS:8931 including C.P. brass extension if required: <b>Wall mixer with elegant knob (1400 grams), Health faucet (hand jet) with flexible connection pipe (for WC)</b></li> <li>Providing and fixing stainless steel drain Jali of approved/quality.</li> <li>Providing and fixing water closet squatting pan (<b>Indian type W.C. pan</b> ), 100mm sand cast Iron P or S trap, 10 litre low level P.V.C. flushing cistern (same color) conforming to IS : 7231, with flush bend and other fittings <b>White Orissa pattern W.C. pan of size 580x440 mm</b></li> <li>Providing and fixing <b>vitreous China water closet (European type W.C. pan)</b> with white ISI marked plastic seat and lid, 10 litre low level white P.V.C. flushing cistern (same color), conforming to IS : 7231, with all fittings</li> <li>Providing and fixing vitreous <b>China wash basin</b> with C.I. brackets, 32 mm C.P. brass waste of standard pattern, including painting of brackets, cutting and making good the walls wherever required :White Size 550x450 mm</li> <li>Providing and fixing <b>Stainless Steel A ISI 304 (18/8) kitchen sink</b> without drain board as per IS 13983 with C.I. brackets and stainless-steel plug 40 mm including painting of fittings and brackets, cutting and making good the walls wherever required:345x445 mm bowl depth 200 mm.</li> </ul>
				<ul style="list-style-type: none"> <li>Providing and fixing 15 mm nominal bore unplasticized PVC connection pipe with PTMT nuts and PVC bush of approved quality and colour:45 CM length</li> </ul>

				<p>14) Providing and placing on terrace polyethylene <b>water storage tank</b> ISI : 12701 marked with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank 1000 litre.</p> <ul style="list-style-type: none"> <li>• Providing and fixing on wall face or under floor UV stabilized Unplasticized Rigid PVC pipes (single socketed) having 3.2mm wall thickness conforming to IS : 13592 (4kg/sqcm) including required couplers, jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion etc complete. 75 mm dia pipe. &amp; 110 mm dia pipe.</li> <li>• Providing and fixing on wall face UV stabilized Unplasticized - PVC moulded fittings/ accessories having 3.2mm wall thickness for Rigid PVC pipes conforming to IS : 13592 (heavy) jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion. Tee/ Tee with door/ Bend 45°/ Bend 90° : 75 mm &amp; 110 mm, Double "Y" with or without door 75 mm &amp; 110 mm, Vent Covel 75 mm &amp; 110 mm, Nahani trap 110x75mm</li> </ul>
				<ul style="list-style-type: none"> <li>• Providing and fixing UV stabilized Unplasticized -PVC pipe clips of approved design to Rigid PVC pipes by means of 50x50x50mm hard wood plugs, screwed with M.S. screws of required length including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete. 75 mm &amp; 110 mm</li> <li>• Providing and fixing M.S. holder-bat clamps of approved design to Sand Cast iron/cast iron (spun) pipe embedded in and including cement concrete blocks 10x10x10cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) including cost of cutting holes and making good the walls etc. : For 100 mm dia pipe &amp; For 75 mm dia pipe</li> <li>• Providing and fixing filter of minimum 100 liter capacity for roof top rain water harvesting through tube well consisting of two layered HDPE tank with five layers (each layers of minimum 100 mm) consist of coarse sand, 4mm, 6mm, 8mm &amp; 12 mm gravels with stainless steel wire mesh fixed between each</li> </ul>

				<p>layer with suitable length and sufficient numbers of 110 mm dia PVC pipe pieces in the bottom of tank to support the above layer including fixing of inlet and out let P.V.C. pipe of required diameter upto 2 meter length on each side, Cement Concrete platform of required size complete as directed by Engineer in charge. (excluding cost of tubewell and inlet and outlet pipe beyond 2 meter)</p> <ul style="list-style-type: none"> <li>• Providing and fixing square-mouth S.W. gully trap grade 'A' complete with C.I. grating brick masonry chamber with well burnt modular clay bricks crushing strength not less than 35kg/cm<sup>2</sup>, water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design :180x150 mm size P type</li> <li>• Constructing brick masonry manhole with well burnt modular clay bricks crushing strength not less than 35kg/cm<sup>2</sup> in cement mortar 1:4 (1 cement : 4 coarse sand), R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation in cement concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size) inside plastering 12mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement complete as per standard design :Inside size 90x80 cm and 45 cm deep including RCC cover with frame 450x600 mm internal dimensions.</li> </ul>
				<ul style="list-style-type: none"> <li>• All Sanitary items Make Must Be :- Kohler, Jaguar</li> </ul>
	Building Elevation			<ul style="list-style-type: none"> <li>• Building elevation shall be strictly in accordance with the approved Drawings by the board. &amp;Directed by Engineer in Charge</li> </ul>
	Rate	:		<ul style="list-style-type: none"> <li>• All rates are as per the Schedule of rate in C.G. P.W.D. in forced from 1<sup>st</sup> JAN.2015</li> </ul>
	Specification	:		<ul style="list-style-type: none"> <li>• Work will be executed as per C.G.H.B. &amp; C.G.P.W.D. Specification.</li> </ul>
	Make	:		<ul style="list-style-type: none"> <li>• All Used Material Make is as per the above-mentioned brands.</li> </ul>

	Special Note			<ul style="list-style-type: none"> <li>All Work Mentioned Here Must be Done By Contractor &amp; Those Work not Mentioned here Mistakenly and It present In Estimate Of The project &amp; Directed By Engineer In Charge Those Work Must be Done By Contractor Without Any Litigation.( All Work Must Be Done As per Estimate )</li> </ul>
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GENERAL SPECIFICATION FOR DEVELOPMENT WORK				
	Name of work	:		Development Work Under Redevelopment Yojana At Kailash Nagar Rajnandgaon (C.G)
		:		Following provision have been made in this building.
1	Total area	:		<ul style="list-style-type: none"> <li>1.74acre</li> <li>Structural drawing should be prepared by contractor himself and approved by n.i.t in consideration</li> </ul>
2	Site levelling course	:		<ul style="list-style-type: none"> <li>Jungle clearance &amp; surface dressing to clean the site</li> <li>Levelling proposed site providing and filling in plinth with sand/ crusher dust and hard murrum</li> </ul>
3	Compound wall	:		<ul style="list-style-type: none"> <li>Compound wall in periphery of all open &amp; garden in colony as per drawing and design. Height of brick work boundary wall (1:6) should be 1.50 meter above from modified ground level (m.g.l.) , above this 1.00-meter height of m.s. grill .</li> <li>Column upto plinth with necessary tie beam at plinth casting with m 25 grade design mix reinforced cement concrete using batching plant, transit mixer and concrete pump, in all works</li> <li>Every 30meter expansion column should be provided with expansion sheet .</li> <li>Brick work wall is 12mm plaster with 1:5 cement motor ,</li> <li>15mm plaster with 1:5 cement motor, painting with textured exterior paints work in all respect &amp; as directed by engineer in charge .</li> </ul>
6	RCC drain	:		<ul style="list-style-type: none"> <li>Construction of RCC open drain 0.60m x 0.60m inside dimension lined with 120 mm thick RCC m-20 walls, 120 mm thick cc m-20 foundation, over 100 mm thick (av) levelling course in PCC m-15 including excavation , dressing of sides and bottom, provision of hysd reinforcement consisting 8 mm die horizontal bars @ 150 mm c/c and l-</li> </ul>

				<p>shaped 8 mm die vertical bars @ 150 mm c/c (l= 800 mm) including cutting , bending and binding wire, placing in position , providing shuttering and concreting by using concrete mixer, compaction by vibration etc complete as per drawings and technical specifications.</p> <ul style="list-style-type: none"> <li>• Open drain covered with 125mm thick chamber cover.</li> </ul>
7	Culvert			<ul style="list-style-type: none"> <li>• Providing and laying reinforced cement concrete pipe np 4 / prestressed concrete pipe on first class bedding (laying reinforced cement concrete pipe np4/prestressed concrete pipe for culverts on first class bedding of granular material including fixing collar with cement mortar 1:2 and bedding as per clause 2904 .</li> </ul>
8	Entrance gate	:		<ul style="list-style-type: none"> <li>• Construction of 2 nos. R.c.c. entrance gate guard room &amp; 2 nos. M.s. gate with cattle catcher complete work in as per drawing design .&amp; as directed by engineer in charge .</li> </ul>
9	Rainwater harvesting			<ul style="list-style-type: none"> <li>• 02 nos. Rainwater harvesting ( recharge well ) of dia 4.30 meter. Each recharge well having 200mm dia borewell with slotted casing pipe and filling recharge well with coarse material in different layer complete work in all respect as per drawing design .&amp; as directed by engineer in charge .</li> </ul>
10	Bore well	:		<ul style="list-style-type: none"> <li>• Boring/drilling 02 no's successful bore well , casing pipe , g.i. pipe for submersible pump i/c resistivity survey by vest method complete work in all respect.&amp; as directed by engineer in charge .</li> </ul>
11	External water supply	:	(i)	<ul style="list-style-type: none"> <li>• Supplying , excavation &amp; laying cpvc water supply line as per drawing design i/c service chamber for underground pipeline , gate valve ,sluice valve &amp; all other fittings . Complete work in all respect.&amp; as directed by engineer in charge ..</li> </ul>
12	Sump well with pump house	:		<ul style="list-style-type: none"> <li>• Construction of 2 nos. Sump well with pump house as per required capacity complete work in all respect as per drawing design .&amp; as directed by engineer in charge</li> </ul>
13	Sewer line	:		<ul style="list-style-type: none"> <li>• Providing, lowering, laying, aligning, fixing in position at and jointing at all level/ depths isi marked hdpe pipes of pe-100 grade and pn 6 for sewer application as per is 14333-1996 (amended upto date) in trenches in complete including all material, labour, testing and commissioning as per direction of engineer.150mm 200mm as per directed by engineer in charge</li> </ul>

				<ul style="list-style-type: none"> <li>• Providing and constructing brick masonry chamber for underground pipe and and bends with well burnt modular clay bricks crushing strength not less than 35kg/cm<sup>2</sup> in cement mortar 1:4 (1 cement : 4 coarse sand) c.i. cover with frame (light duty) 455x610 mm internal dimensions,</li> <li>• Inside dimensions 455x610 mm and 45 cm deep for single pipeline :</li> <li>• Inside dimensions 600x 850 mm and 45 cm deep for pipeline with three or more inlets</li> </ul>
14	Septic tank & bio digester	:		<ul style="list-style-type: none"> <li>• Construction of RCC m25 septic tank for wrd office ,g type (s+6) flats and h type (s+6) flats as per drawing &amp; design complete work in all respect &amp; as directed by engineer in charge .</li> <li>• Design. Supply, installation, testing &amp; commissioning of aerobic type buried domestic sewage treatment plant (plant room shall be above ground), with collection tanks, treated wastewater tanks, process treatment tanks, electromechanical equipment's including pumps, piping, blowers, valves for primary, secondary &amp; tertiary treatment with required electrification. The scope shall also include bypass connection &amp; treated wastewater tank connection to nearest drain. Treated wastewater parameters shall meet gpcb norms for disposal.</li> </ul>
	Internal roads	:		<ul style="list-style-type: none"> <li>• Internal road 12.00 meter wide ,9.00 meter wide ,7.50-meter wide r.c.c. road , in which compacting original ground , sub grade material depth 0.30-meter construction of granular sub-base by providing graded material plant mix method (with mechanically crushed stone only) grading-iii material 0.20-meter , grading-v material 0.20, dry lean cement concrete 0.20 meter. Depth, r.c.c. cement concrete pavement m-30 0.30-meter depth , filling shoulder with murrum in required depth both side of all type of road . Complete work in all respect &amp; as directed by engineer in charge .</li> </ul>
	Providing and fixing of submersible& Monoblock motor pump			<ul style="list-style-type: none"> <li>• Providing , fixing &amp; testing of 02 no's submersible pump 5 h.p or 3 h.p as required &amp; 2 nos.10 h.p open well motor pump , 4 nos. 12.5 hp. Monoblock motor pump i/c starter, panel board, meter board, mccb, service cable, submersible cable, nrv, valve &amp; all other fittings complete work in all respect.&amp; as directed by engineer in charge .</li> </ul>
	Rain water			<ul style="list-style-type: none"> <li>• Provision of pvc rainwater pipe has given in the building with clamps &amp; providing and fixing filter of</li> </ul>

				1000 litre capacity for roof top rain water harvesting .
	Building elevation			<ul style="list-style-type: none"> <li>Building elevation shall be strictly in accordance with the approved drawings by the board. &amp; directed by engineer in charge</li> </ul>
	Rate	:		<ul style="list-style-type: none"> <li>All rates are as per schedule of rate in C.G. P.W.D. in forced from 1<sup>st</sup> jan.2015</li> </ul>
	Special note			<ul style="list-style-type: none"> <li>All work mentioned here must be done by contractor &amp; those work not mentioned here mistakenly and it present in estimate of the project &amp; directed by engineer in charge those work must be done by contractor without any litigation.( all work must be done as per estimate)</li> </ul>

**CHHATTISGARH HOUSINGBOARD, DIVISION-RAJNANDGAON****Make List****GENERAL SPECIFICATION FOR CONSTRUCTION GAD COLONY/OFFICES  
UNDER REDEVELOPMENT SCHEME AT KAILASH NAGAR  
RAJNANDGAON (C.G.**

SNO	PARTICULAR	H-TYPE
1	CEMENT (OPC CEMENT 53 Grade)	ACC/ Ambuja/ULTRATECH
2	STEEL	GOEL/ Nakoda/GK/Shrishtii
3	FLOOR&WALLTILES	KAJARIA/RAK/ORIENT
4	FLUSH DOOR SHUTTER (IS-2202 Part-I, 35mm thick)	CENTURY/NATIONAL/ GREENPLY/KITPLY
5	PVC DOOR SHUTTER	SINTEX,
6	ALUMINIUM SECTION (1.5mm thickness IS-733, IS-1285)	HINDALCO/JINDAL/SAINT GOBIN
7	WHITE CEMENT (Grade-I)	JK/BIRLA/ASIAN / NIPPON
8	PUTTY (Grade-I)	JK/BIRLA/ASIAN/ NIPPON
9	EMULSION PAINT (Grade-I)	Asian/ Berger/ Dulux paint/ NIPPON
10	EXTERNAL EMULSION PAINT (Grade-I)	Asian/ Berger/ Dulux paint / NIPPON
11	SYNTHETIC ENAMEL (Grade-I)	Asian/ Berger/ Dulux paint / NIPPON
12	PVC PIPE	FINOLEX, SUPREME, ASTRAL (TYPE A)
13	CPVC PIPE	FINOLEX, SUPREME, ASTRAL (TYPE A)
14	SANITARY FITTINGS	
	INDIAN WC PAN	JAQUAR/ HINDWARE/KOHLER/PARRYWARE
	WESTERN WC PAN (WHITE PEDESTAL TYPE)	JAQUAR/ HINDWARE/ KOHLER/PARRYWARE
	WALL MIXER	JAQUAR/HINDWARE/ KOHLER/PARRYWARE
	BIB COCK	JAQUAR/HINDWARE/ KOHLER/PARRYWARE
		JAQUAR/HINDWARE/

	PILLARCOCK	KOHLER/PARRYWARE
	STOPCOCK	JAQUAR/HINDWARE/ KOHLER/PARRYWARE
	SHOWER	JAQUAR/HINDWARE/ KOHLER/PARRYWARE
	TWO WAY BIB COCK	JAQUAR/HINDWARE/ KOHLER/PARRYWARE
15	GI PIPE (B CLASS)	TATA/JINDAL/SURYA
16	WATER TANK (5 LAYER)	SINTEX/PLASTO/VERTEX/ ASTRAL/ OSAN /XX
17	KITCHEN SINK	Nirali/Zayna/Sincore
18	WATERPROOFING	PIDILITEDRFXIT/sika/ ASIAN
19	SS RAILING	HINDALCO/JINDAL
20	GLASS	SAINTGOBIN/BGLT MODI

**ANNEXURE - 17****General Specification for GAD quarter External and Internal Electrification****INTERNAL ELECTRIFICATION GENERAL SPECIFICATION****(A) E TYPE DUPLEX BUNGALOW**

1	QTY. FOR EACH E TYPE HOUSE	<p>Point Wiring :- Point wiring for Light / Fan / Exhaust fan/Call Bell with 3x1.5 Sqmm FRLS PVC</p> <p>Insulated stranded copper conductor wire of Polycab / Havells / RR Kabel Make concealed FRLS PVC Conduit ( Heavy duty thickness of pipe should be 2 mm) Polycab / Precision / Saraswati Make with 5/6 amps modular switch, modular base and cover plate of Havells (Verona) / Legrand (Mylinc) / Anchor (Woods) Make and other necessary required material i.e. suitable size G.I. Box, ceiling rose, fan box, holder, dummy (Blanking) plate and Earthing the box with same size of wire and two module size Step type fan regulator &amp; 25/32 amp A.C. Starter switch etc. internal electrification should be as per drawing with above specification (all materials should have relevant ISI mark)</p>
	(a)	Light Point - 33 Nos.
	(b)	Fan Point - 09 Nos.
	(c)	Exhaust Fan Point - 06 Nos.
	(d)	Twin Control Point - 10 Nos.
	(e)	Call bell/Buzzer Point - 02 No.
	(f)	Switch Board (for control of light & fan point) along with 01 No. 5/6 amp Modular Switch & 3 Pin 5/6 Amps modular type Socket Outlet - 14 Nos.
	(g)	Separate Board with 5/6 amp Modular Switch & 3 Pin 5/6 Amps modular type Socket Outlet with suitable size G.I. box, modular base and cover complete as per specification with 3x2.5 Sqmm FRLS PVC insulated Stranded Copper Conductor wire. - 14 Nos.
	(h)	Power Point With :- 16 Amp switch and 6 pin 16 amps socket outlet with suitable size G.I. box, modular base and cover plate with 3 x 4 sqmm FRLS

		PVC insulated Stranded copper conductor from MCB DB to power point. - 09 Nos.
	(i)	Composite Unit Points :- modular type 1 No 6 pin 16 amp socket outlet, 1 No 16 amp switch, 3 Nos 3 pin 6 amp socket outlets, 3 Nos 6 amp switches with suitable size G.I. box, modular base and cover plate with 3 x 4 sqmm FRLS PVC insulated Stranded copper conductor from MCB DB to composite unit for computer points. - 04 Nos.

2		Circuit / Submain wiring :- Wiring for FRLS PVC insulated stranded copper conductor wire of Polycab / Havells / RR Kabel Make circuit wiring from MCB DB to switch board wiring along with the 3 x 2.5, 6 x 2.5, 9 x 2.5 sqmm in 20 mm, 25 mm, 32 mm & sub main wiring from Meter board to MCB DB with 6 x 10 sqmm in 40 mm dia PVC Conduit (Heavy duty thickness of pipe should be 2 mm) Polycab / Precision / Saraswati Make. (all materials should have relevant ISI mark)
3		Inverter Wiring :- Wiring for Inverter with 2.5 sqmm wire in required size of PVC pipe with 02 Nos 16 Amp switch and 02 Nos 6 pin 16 amps socket outlet with 02 Nos. plug top (Deluxe type) 3 pin 16 amps. (all material should have relevant ISI mark).
4		T.V. Socket & Wiring :- Supplying, drawing and fixing of Havells (Verona) / Legrand (Myline) / Anchor (Woods) Make modular type T.V. socket and RG-6 grade co-axial T.V. wire FRLS PVC insulated, shielded with fine tinned copper braid and protected with PVC sheath in concealed PVC conduit of Polycab / Havells / RR Kabel Make separately from each point to outer common point in separate concealed rigid PVC conduit ( Heavy duty thickness of pipe should be 2 mm) Polycab / Precision / Saraswati Make conduit - 04 Nos.
5		MCB DB, SP AND TP&N MCB ('C' Series) (Legrand / Havells / Polycab Make)
	(a)	6 way double door TPN MCB DB - 02 No.
	(b)	6 amps to 32 amps SP MCB - 36 No.
	(c)	63 amps TP&N MCB - 02 Nos.

6		Chemical Earthing :- Providing maintenance free chemical Earthing with 2 meter long G.I. Pipes and 25 kg back filling
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		compound. size GI pipe including making bore pit of minimum 150mm dia, providing and laying approved make Earthing Electrode of Pipe in-Pipe technology as per IS 3043-1987 made of corrosion free G.I. Pipes having outer pipe of 80mm dia and inner pipe of 50mm dia and filling with specified qty highly conductive compound around pipe and above that with soft soil in bore pit complete and providing masonry enclosure with cover plate having locking arrangement and watering pipe with Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as per specification.- 02 Nos
7		Wooden Board & Cut out :- Providing and fixing of 01 No. wooden board & 04 Nos. 63 amp 415 volt rewirable fuse carrier with Neutral link has sufficient space for fixing of 03 phase energy meter with service cable 4 x 25 sqmm in 63 sqmm hdpe pipe from CSS/Metering Panel to Building meter connection point with all necessary required material.
8		Call bell/Buzzer Point :- Supplying and fixing call bell / buzzer suitable for Deluxe, Havells / Cona / Vinay Make single phase, 230 volts A.C. supply, complete as per specification.- 01 Nos.
9		Ceiling Fan :- Supplying, installation, testing and commissioning of 1200 mm sweep sizes Usha / Havells / Crompton Make ceiling fan including wiring the down rods of standard length up to 30 cm with 1.5 sq. mm FRLS PVC insulated, stranded copper conductor, single core cable, earthing etc. complete as required. should be greater than 0.9 with BEE Star rating from 3 star and above rated ceiling fan i/c fan box with phenolic laminated sheet cover. - 09 Nos.
10		Exhaust Fan :- Supplying, installation, testing and commissioning of 300 mm sweep sizes Usha / Havells / Crompton Make heavy duty (continuous running) 1400 rpm exhaust fan in existing opening in wall including necessary required material for installation etc. complete as per specification - 01 Nos.
11		Fancy Exhaust Fan :- Supplying, installation, testing and commissioning of 300 mm sweep sizes Usha / Havells / Crompton Make heavy duty (continuous running) fancy exhaust fan having built in lovers in existing opening in wall including necessary required material for installation etc. complete as per specification. P.F. should be greater than 0.9 - 05 Nos.
12		LED Tube Light Fitting :- Supplying, Installation, testing and commissioning of LED tube light fitting Havells/Philips/Wipro Make, including batten with Electronic Driver Heat sink Capacitor complete with all other accessories on surface/in false ceiling, including connection, earthing etc complete as

		per specification and IP20.P.F. should be greater than 0.9 LED chip efficacy ratio $\geq$ 100 Lumens/watt.
	(a)	10 watt (2 feet) - 10 Nos.
	(b)	18/20 watt (4 feet) - 30 Nos.
13		LED Bulkhead Fitting :- Supplying, installation, testing and commissioning of 10 watt of LED tube light fitting Havells/Philips/Wipro Make LED Bulk Head fitting complete with Electronic Driver Heat sink Capacitor and all other accessories, including connection, earthing etc complete as per specification and P.F. should be greater than 0.9. LED chip efficacy ratio $\geq$ 100 lumens /watt. IP65 -06 Nos.

## (B) G TYPE QUARTER (S+6)

1	QTY. FOR EACH FLAT	<p>Point Wiring :- Point wiring for Light / Fan / Exhaust fan/Call Bell with 3x1.5 Sqmm FRLS PVC</p> <p>Insulated stranded copper conductor wire of Polycab / Havells / RR Kabel Make concealed FRLS PVC Conduit ( Heavy duty thickness of pipe should be 2 mm) Polycab / Precision / Saraswati Make with 5/6 amps modular switch, modular base and cover plate of Havells (Verona) / Legrand (Mylinc) / Anchor (Woods) Make and other necessary required material i.e. suitable size G.I. Box, ceiling rose, fan box, holder, dummy (Blanking) plate and Earthing the box with same size of wire and two module size Step type fan regulator &amp; 25/32 amp A.C. Starter switch etc. internal electrification should be as per drawing with above specification (all materials should have relevant ISI mark)</p>
	(a)	Light Point - 15 Nos.
	(b)	Fan Point - 05 Nos.
	(c)	Exhaust Fan Point - 03 Nos.
	(d)	Twin Control Light Point - 08 Nos.
	(e)	Call bell/Buzzer Point - 01 No.
	(f)	Switch Board (for control of light & fan point) along with 01 No. 5/6 amp Modular Switch & 3 Pin 5/6 Amps modular type Socket Outlet - 08 Nos.

	(g)	Separate Board with 5/6-amp Modular Switch & 3 Pin 5/6 Amps modular type Socket Outlet with suitable size G.I. box, modular base and cover complete as per specification with 3x2.5 Sqmm FRLS PVC insulated Stranded Copper Conductor wire. - 10 Nos.
	(h)	Power Point With :- 16 Amp switch and 6 pin 16 amps socket outlet with suitable size G.I. box, modular base and cover plate with 3 x 4 sqmm FRLS PVC insulated Stranded copper conductor from MCB DB to power point. - 07 Nos.
	(i)	Composite Unit Points :- modular type 1 No 6 pin 16 amp socket outlet, 1 No 16 amp switch, 3 Nos 3 pin 6-amp socket outlets, 3 Nos 6 amp switches with suitable size G.I. box, modular base and cover plate with 3 x 4 sqmm FRLS PVC insulated Stranded copper conductor from MCB DB to composite unit for computer points. - 03 Nos.

2		Circuit / Submain wiring :- Wiring for FRLS PVC insulated stranded copper conductor wire of Polycab / Havells / RR Kabel Make circuit wiring from MCB DB to switch board wiring along with the 3 x 2.5, 6 x 2.5, 9 x 2.5 sqmm in 20 mm, 25 mm, 32 mm & sub main wiring from MCB DB inside the flat to metering panel in electrical room at ground floor with 6 x 10 sqmm in 40 mm dia PVC Conduit (Heavy duty thickness of pipe should be 2 mm) Polycab / Precision / Saraswati Make. (all materials should have relevant ISI mark)
3		Inverter Wiring :- Wiring for Inverter with 2.5 sqmm wire in required size of PVC pipe with 02 Nos 16 Amp switch and 02 Nos 6 pin 16 amps socket outlet with 02 Nos. plug top (Deluxe type) 3 pin 16 amps. (all material should have relevant ISI mark).
4		T.V. Socket & Wiring :- Supplying, drawing and fixing of Havells (Verona) / Legrand (Myline) / Anchor (Woods) Make modular type T.V. socket and RG-6 grade co-axial T.V. wire FRLS PVC insulated, shielded with fine tinned copper braid and protected with PVC sheath in concealed PVC conduit of Polycab / Havells / RR Kabel Make separately from each point to outer common point in separate concealed rigid PVC conduit ( Heavy duty thickness of pipe should be 2 mm) Polycab / Precision /

		Saraswati Make conduit - 03 Nos.
5		MCB DB, SP AND TP&N MCB ('C' Series) (Legrand / Havells / Polycab Make)
	(a)	6 way double door TPN MCB DB - 01 No.
	(b)	6 amps to 32 amps SP MCB - 18 No.
	(c)	63 amps TP&N MCB - 01 Nos.
6		Call bell/Buzzer Point :- Supplying and fixing call bell / buzzer suitable for Deluxe, Havells / Cona / Vinay Make single phase, 230 volts A.C. supply, complete as per specification.- 01 Nos.
7		Ceiling Fan :- Supplying, installation, testing and commissioning of 1200 mm sweep sizes Usha / Havells / Crompton Make ceiling fan including wiring the down rods of standard length up to 30 cm with 1.5 sq. mm FRLS PVC insulated, stranded copper conductor, single core cable, earthing etc. complete as required. should be greater than 0.9 with BEE Star rating from 3 star and above rated ceiling fan i/c fan box with phenolic laminated sheet cover. - 05 Nos.
8		Exhaust Fan :- Supplying, installation, testing and commissioning of 300 mm sweep sizes Usha / Havells / Crompton Make heavy duty (continuous running) 1400 rpm exhaust fan in existing opening in wall including necessary required material for installation etc. complete as per specification - 01 Nos.
9		Fancy Exhaust Fan :- Supplying, installation, testing and commissioning of 300 mm sweep sizes Usha / Havells / Crompton Make heavy duty (continuous running) fancy exhaust fan having built in lovers in existing opening in wall including necessary required material for installation etc complete as per specification. P.F. should be greater than 0.9 - 02 Nos.
10		LED Tube Light Fitting :- Supplying, Installation, testing and commissioning of LED tube light fitting Havells/Philips/Wipro Make, including batten with Electronic Driver Heat sink Capacitor complete with all other accessories on surface/in false ceiling, including connection, earthing & necessary required material for installation etc complete as per specification and IP20.P.F. should be greater than 0.9 LED chip efficacy ratio $\geq 100$ Lumens/watt.

	(a)	10 watts {2 feet} - 03 Nos.
	(b)	18/20 watt (4 feet) - 11 Nos.
		FOLLOWING ITEMS SHALL BE DONE OTHER THAN ABOVE ITEMS FOR COMMON AREA 24 NOS. FLAT (EACH BLOCK)
11		POINT WIRING :- Point wiring for Light / Fan / Exhaust fan/Call Bell with 3x1.5 Sqmm FRLS PVC Insulated stranded copper conductor wire of Polycab / Havells / RR Kabel Make concealed FRLS PVC Conduit ( Heavy duty thickness of pipe should be 2 mm) Polycab / Precision / Saraswati Make with 5/6 amps modular switch, modular base and cover plate of Havells (Verona) / Legrand (Mylin) / Anchor (Woods) Make and other necessary required material i.e. suitable size G.I. Box, ceiling rose, fan box, holder, dummy (Blanking) plate and Earthing the box with same size of wire and two module size Step type fan regulator & 25/32 amp A.C. Starter switch etc. internal electrification should be as per drawing with above specification (all materials should have relevant ISI mark)
	(a)	Light Point - 41 Nos.
	(b)	Twin Control Light Point - 08 Nos.
	(c)	Switch Board (for control of light & fan point) along with 01 No. 5 pin 6 Amp socket outlet & switch - 04 Nos.
12		MCB DB, SP AND SP&N MCB ('C' Series) (Legrand / Havells / Polycab Make)
	(a)	4 way double door SP&N MCB DB - 01 No.
	(b)	6 amps to 32 amps SP MCB - 02 No.
	(c)	6 amps to 32 amps SP&N MCB - 01 No.

13		LED Tube Light Fitting :- Supplying, Installation, testing and commissioning of LED tube light fitting Havells/Philips/Wipro Make, including batten with Electronic Driver Heat sink Capacitor complete with all other accessories on surface/in false ceiling, including connection, earthing etc complete as per specification and IP20.P.F. should be greater than 0.9 LED chip efficacy ratio $\geq$ 100 Lumens/watt.
	(a)	18/20 watt (4 feet) - 30 Nos.
14		LED Bulkhead Fitting :- Supplying, installation, testing and commissioning of 10 watt of LED tube light fitting Havells/Philips/Wipro Make LED Bulkhead fitting complete with Electronic Driver Heat sink Capacitor and all other accessories, including connection, earthing etc complete as per specification and P.F. should be greater than 0.9. LED chip efficacy ratio $\geq$ 100 lumens /watt. IP65 -15 Nos.
15		LED Street Light Fitting :- Supplying, installation, testing and commissioning of 45 watt of LED streetlight fitting Havells / Wipro / Philips Make (ISI) 230/250 volts with all accessories like driver, heat sink made of die cast aluminium with IP 66 protection and 15 KV surge protection including connection, earthing Separate housing for driver etc complete as per specification- 01 Nos.

## (C) H TYPE QUARTER (S+6)

1	QTY. FOR EACH FLAT	Point Wiring :- Point wiring for Light / Fan / Exhaust fan/Call Bell with 3x1.5 Sqmm FRLS PVC Insulated stranded copper conductor wire of Polycab / Havells / RR Kabel Make concealed FRLS PVC Conduit ( Heavy duty thickness of pipe should be 2 mm) Polycab / Precision / Saraswati Make with 5/6 amps modular switch, modular base and cover plate of Havells (Verona) / Legrand (Myline) / Anchor (Woods) Make and other necessary required material i.e. suitable size G.I. Box, ceiling rose, fan box, holder, dummy (Blanking) plate and Earthing the box with same size of wire and two module size Step type fan regulator & 25/32 amp A.C. Starter switch etc. internal electrification should be as per drawing with above specification (all materials should have relevant ISI mark)
	(a)	Light Point - 12 Nos.

	(b)	Fan Point - 03 Nos.
	(c)	Exhaust Fan Point - 3
	(d)	Twin Control Light Point - 04 Nos.
	(e)	Call bell/Buzzer Point - 01 No.
	(f)	Switch Board (for control of light & fan point) along with 01 No. 5/6 amp Modular Switch & 3 Pin 5/6 Amps modular type Socket Outlet - 05 Nos.
	(g)	Separate Board with 5/6 amp Modular Switch & 3 Pin 5/6 Amps modular type Socket Outlet with suitable size G.I. box, modular base and cover complete as per specification with 3x2.5 Sqmm FRLS PVC insulated Stranded Copper Conductor wire. - 07 Nos.
	(h)	Power Point With :- 16 Amp switch and 6 pin 16 amps socket outlet with suitable size G.I. box, modular base and cover plate with 3 x 4 sqmm FRLS PVC insulated Stranded copper conductor from MCBDB to power point. - 05 Nos.
	(i)	Composite Unit Points:- modular type 1 No 6 pin 16-amp socket outlet, 1 No 16 amp switch, 3 Nos 3 pin 6 amp socket outlets, 3 Nos 6 amp switches with suitable size G.I. box, modular base and cover plate with 3 x 4 sqmm FRLS PVC insulated Stranded copper conductor from MCB DB to composite unit for computer points. - 02 Nos.

2		<p>Circuit / Submain wiring :- Wiring for FRLS PVC insulated stranded copper conductor wire of Polycab / Havells / RR Kabel Make circuit wiring from</p> <p>MCB DB to switch board wiring along with the 3 x 2.5, 6 x 2.5, 9 x 2.5 sqmm in 20 mm, 25 mm, 32 mm &amp; sub main wiring from MCB DB inside the flat to metering panel in electrical room at ground floor with</p> <p>6 x 10 sqmm in 40 mm dia PVC Conduit (Heavy duty thickness of pipe should be 2 mm) Polycab / Precision / Saraswati Make. (all materials should have relevant ISI mark)</p>
3		<p>Inverter Wiring :- Wiring for Inverter with 2.5 sqmm wire in required size of PVC pipe with 02 Nos 16 Amp switch and 02 Nos 6 pin 16 amps socket outlet with 02 Nos. plug top (Deluxe type) 3 pin 16 amps. (all material should have relevant ISI mark).</p>

4		T.V. Socket & Wiring :- Supplying, drawing and fixing of Havells (Verona) / Legrand (Myline) / Anchor (Woods) Make modular type T.V. socket and RG-6 grade co-axial T.V. wire FRLS PVC insulated, shielded with fine tinned copper braid and protected with PVC sheath in concealed PVC conduit of Polycab / Havells / RR Kabel Make separately from each point to outer common point in separate concealed rigid PVC conduit ( Heavy duty thickness of pipe should be 2 mm) Polycab / Precision / Saraswati Make conduit - 02 Nos.
5		MCB DB, SP AND TP&N MCB ('C' Series) (Legrand / Havells / Polycab Make)
	(a)	4 way double door TPN MCB DB - 01 No.
	(b)	6 amps to 32 amps SP MCB - 12 No.
	(c)	40 amps TP&N MCB - 01 Nos.
6		Call bell/Buzzer Point :- Supplying and fixing call bell / buzzer suitable for Deluxe, Havells / Cona / Vinay Make single phase, 230 volts A.C. supply, complete as per specification.- 01 Nos.
7		Ceiling Fan :- Supplying, installation, testing and commissioning of 1200 mm sweep sizes Usha / Havells / Crompton Make ceiling fan including wiring the down rods of standard length up to 30 cm with 1.5 sq. mm FRLS PVC insulated, stranded copper conductor, single core cable, earthing etc. complete as required. P.F. should be greater than 0.9 with BEE Star rating from 3 star and above rated ceiling fan i/c fan box with phenolic laminated sheet cover. - 02 Nos.
8		Exhaust Fan :- Supplying, installation, testing and commissioning of 300 mm sweep sizes Usha / Havells / Crompton Make heavy duty (continuous running) 1400 rpm exhaust fan in existing opening in wall including necessary required material for installation etc. complete as per specification - 01 Nos.
9		Fancy Exhaust Fan :- Supplying, installation, testing and commissioning of 300 mm sweep sizes Usha / Havells / Crompton Make heavy duty (continuous running) fancy exhaust fan having built in lovers in existing opening in wall including necessary required material for installation etc. complete as per specification. P.F. should be greater than 0.9 - 02 Nos.

10		LED Tube Light Fitting :- Supplying, Installation, testing and commissioning of LED tube light fitting, Havells/Philips/Wipro Make, including batten with Electronic Driver Heat sink Capacitor complete with all other accessories on surface/in false ceiling, including connection, earthing etc complete as per specification and IP20.P.F. should be greater than 0.9 LED chip efficacy ratio $\geq$ 100 Lumens/watt.
	(a)	10 watt {2 feet} - 03 Nos.
	(b)	18/20 watt (4 feet) - 07 Nos.
		FOLLOWING ITEMS SHALL BE DONE OTHER THAN ABOVE ITEMS FOR COMMON AREA 24 NOS. FLAT (EACH BLOCK)
11		Point Wiring :- Point wiring for Light / Fan / Exhaust fan/Call Bell with 3x1.5 Sqmm FRLS PVC Insulated stranded copper conductor wire of Polycab / Havells / RR Kabel Make concealed FRLS PVC Conduit ( Heavy duty thickness of pipe should be 2 mm) Polycab / Precision / Saraswati Make with 5/6 amps modular switch, modular base and cover plate of Havells (Verona) / Legrand (Myline) / Anchor (Woods) Make and other necessary required material i.e. suitable size G.I. Box, ceiling rose, fan box, holder, dummy (Blanking) plate and Earthing the box with same size of wire and two module size Step type fan regulator & 25/32 amp A.C. Starter switch etc. internal electrification should be as per drawing with above specification (all materials should have relevant ISI mark)
	(a)	Light Point - 33 Nos.
	(b)	Twin Control Light Point - 08 Nos.
	(c)	Switch Board (for control of light & fan point) along with 01 No. 5 pin 6 Amp socket outlet & switch - 04 Nos.
12		MCB DB, SP AND SP&N MCB ('C' Series) (Legrand / Havells / Polycab Make)
	(a)	4 way double door SP&N MCB DB - 01 No.
	(b)	6 amps to 32 amps SP MCB - 02 No.
	(c)	6 amps to 32 amps SP&N MCB - 01 No.
13		LED Tube Light Fitting :- Supplying, Installation, testing and commissioning of LED tube light fitting Havells/Philips/Wipro Make, including batten with Electronic Driver Heat sink Capacitor complete with all other accessories on surface/in false ceiling, including connection, earthing etc complete as per specification

		and IP20.P.F. should be greater than 0.9 LED chip efficacy ratio $\geq$ 100 Lumens/watt.
	(a)	18/20 watt (4 feet) - 22 Nos.
14		LED Bulkhead Fitting :- Supplying, installation, testing and commissioning of 10 watt of LED Bulk Head fitting Havells/Philips/Wipro Make complete with Electronic Driver Heat sink Capacitor and all other accessories, including connection, earthing etc complete as per specification and P.F. should be greater than 0.9. LED chip efficacy ratio $\geq$ 100 lumens /watt. IP65 -15 Nos.
15		LED Street Light Fitting :- Supplying, installation, testing and commissioning of 45-watt of 230/250 volts LED street light fitting Havells / Wipro / Philips Make with all accessories like driver, heat sink made of die cast aluminium with IP 66 protection and 15 KV surge protection , including connection, earthing Separate housing for driver etc complete as per specification- 01 Nos.

**(D) WRD OFFICE**

1	WRD OFFICE	Point Wiring :- Point wiring for Light / Fan / Exhaust fan/Call Bell with 3x1.5 Sqmm FRLS PVC Insulated stranded copper conductor wire of Polycab / Havells / RR Kabel Make concealed FRLS PVC Conduit ( Heavy duty thickness of pipe should be 2 mm) Polycab / Precision / Saraswati Make with 5/6 amps modular switch, modular base and cover plate of Havells (Verona) / Legrand (Mylinc) / Anchor (Woods) Make and other necessary required material i.e. suitable size G.I. Box, ceiling rose, fan box, holder, dummy (Blanking) plate and Earthing the box with same size of wire and two module size Step type fan regulator & 25/32 amp A.C. Starter switch etc. internal electrification should be as per drawing with above specification (all materials should have relevant ISI mark)
	(a)	Light Point - 384 Nos.
	(b)	Fan Point - 66 Nos.
	(c)	Exhaust Fan - 42 Nos.
	(d)	Call bell/Buzzer Point - 30 No.
	(e)	Switch Board (for control of light & fan point) along with 01 No. 5/6 amp Modular Switch & 3 Pin 5/6 Amps modular type Socket Outlet - 210 Nos.

	(f)	Separate Board with 5/6 amp Modular Switch & 3 Pin 5/6 Amps modular type Socket Outlet with suitable size G.I. box, modular base and cover complete as per specification with 3x2.5 Sqmm FRLS PVC insulated Stranded Copper Conductor wire. 150 Nos.
	(g)	Power Point With :- 16 Amp switch and 6 pin 16 amps socket outlet with suitable size G.I. box, modular base and cover plate with 3 x 4 sqmm FRLS PVC insulated Stranded copper conductor from MCB DB to power point. - 84 Nos.
	(h)	Composite Unit for Computer Points :- modular type 1 No 6 pin 16-amp socket outlet, 1 No 16 amp switch, 3 Nos 3 pin 6 amp socket outlets, 3 Nos 6 amp switches with suitable size G.I. box, modular base and cover plate with 3 x 4 sqmm FRLS PVC insulated Stranded copper conductor from MCB DB to composite unit for computer points. - 12 Nos.

2		Circuit / Submain wiring :- Wiring for FRLS PVC insulated stranded copper conductor wire of Polycab / Havells / RR Kabel Make circuit wiring from MCB DB to switch board wiring along with the 3 x 2.5, 6 x 2.5, 9 x 2.5 sqmm in 20 mm, 25 mm, 32 mm & sub main wiring from MCB DB inside the office to metering panel in electrical room/panel at ground floor with 6 x 10 sqmm in 32 mm dia PVC Conduit (Heavy duty thickness of pipe should be 2 mm) Polycab / Precision / Saraswati Make. (all materials should have relevant ISI mark)
3		Inverter Wiring :- Wiring for Inverter with 2.5 sqmm wire in required size of PVC pipe with 02 Nos 16 Amp switch and 02 Nos 6 pin 16 amps socket outlet with 02 Nos. plug top (Deluxe type) 3 pin 16 amps. (all material should have relevant ISI mark).
4		Telephone Socket & Wiring :- Supplying, drawing and fixing of Havells (Verona) / Legrand (Myline) / Anchor (Woods) Make modular type Telephone Socket & Polycab / Havells / RR Kabel Make 2 pair 0.5 mm dia FRLS PVC insulated copper conductor, unarmoured telephone Cable & the cable separately form each point to outer common point in separate concealed rigid PVC conduit (Heavy duty thickness of pipe should be 2 mm) Polycab / Precision / Saraswati Make conduit - 66 Nos.
5		T.V. Socket & Wiring :- Supplying, drawing and fixing of Havells (Verona) / Legrand (Myline) / Anchor (Woods) Make modular type T.V. socket and RG-6 grade co-axial T.V. wire FRLS PVC insulated, shielded with fine tinned copper braid and protected with PVC

		sheath in concealed PVC conduit of Polycab / Havells / RR Kabel Make separately from each point to outer common point in separate concealed rigid PVC conduit ( Heavy duty thickness of pipe should be 2 mm) Polycab / Precision / Saraswati Make conduit - 12 Nos.
7		MCB DB, SP AND TP&N MCB ('C' Series) (Legrand / Havells / Polycab Make)
	(a)	4 way double door TPN MCB DB - 06 No.
	(b)	6 way double door TPN MCB DB - 06 No.
	(c)	6 amps to 32 amps SP MCB - 180 No.
	(d)	40 amps TP&N MCB - 06 Nos.
	(e)	63 amps TP&N MCB - 06 Nos.

8		Internet Connection -Internet connection with Supplying and drawing UTP 4 pair Cat 6 LAN wire in concealed FRLS PVC conduit (from 12 U Indoor Rack to computer point) with computer outlet Jack as per specification. -66 Nos.
9		Indoor Rack :- Supplying, installation, testing and commissioning of Val Rack/Data Rack/President/D Link Make 12U Indoor Rack - Wall mount 12U 450D With Front Glass Door Lock & Key 550 12U (Fan, cable manager, PDU + Fan included) complete as per required. - 06 Nos.
10		Call bell/Buzzer Point :- Supplying and fixing call bell / buzzer suitable for Deluxe, Havells / Cona / Vinay Make single phase, 230 volts A.C. supply, complete as per specification.- 30 Nos.
11		Ceiling Fan :- Supplying, installation, testing and commissioning of 1200 mm sweep sizes Usha / Havells / Crompton Make ceiling fan including wiring the down rods of standard length up to 30 cm with 1.5 sq. mm FRLS PVC insulated, stranded copper conductor, single core cable, earthing etc. complete as required. should be greater than 0.9 with BEE Star rating from 3 star and above rated ceiling fan i/c fan box with phenolic laminated sheet cover. - 66 Nos.
12		Exhaust Fan :- Supplying, installation, testing and commissioning of 300 mm sweep sizes Usha / Havells / Crompton Make heavy duty (continuous running) 1400 rpm exhaust fan in existing opening in wall including necessary required material for installation etc. complete as per specification - 06 Nos.
13		Fancy Exhaust Fan :- Supplying, installation, testing and commissioning of 300 mm sweep sizes Usha / Havells / Crompton Make heavy duty

		(continuous running) fancy exhaust fan having built in lovers in existing opening in wall including necessary required material for installation etc. complete as per specification. P.F. should be greater than 0.9 - 36 Nos.
14		LED fitting (luminaries) panel light :- Supplying, installation, testing and commissioning of 18/20 Watt, LED fitting (luminaries) panel light Havells/Philips/Wipro Make in round / square shape complete with electronic driver heat sink capacitor and all other accessories on surface/ in false ceiling etc. as per specification and P.F. should be greater than 0.9 LED chip efficacy ratio $\geq$ 100 lumens /watt. 180 Nos.

15		LED panel down lighters (luminaries) :- Supplying, installation, testing and commissioning of 36 watt, size 600 x 600 mm, sleek LED panel down lighters (luminaries) Havells/Philips/Wipro Make in round/ square shape complete with electronic driver heat sink capacitor and all other accessories on surface/ in false ceiling etc. as per specification and P.F. should be greater than 0.9 LED chip efficacy ratio $\geq$ 100 lumens /watt. - 150 Nos.
16		LED Tube Light Fitting :- Supplying, Installation, testing and commissioning of LED tube light fitting Havells/Philips/Wipro Make, including batten with Electronic Driver Heat sink Capacitor complete with all other accessories on surface/in false ceiling, including connection, earthing etc complete as per specification and IP20.P.F. should be greater than 0.9 LED chip efficacy ratio $\geq$ 100 Lumens/watt.
	(a)	10 watt {2 feet} - 66 Nos.
17		Installation of split type Inverter/Non Inverter Air Conditioner unit, cooling unit on wall inside and condensing unit on out side wall/ ceiling/ floor at desired locations with existing standard length of copper piping with insulation and power cable including providing and fixing necessary good quality powder coated MS frame etc complete as per specification. (Extra length of copper piping and power cable shall be paid extra on linear basis) - 42 Nos.
18		Voltage Stabilizer :- Supply and fixing of 4 KVA, approved make V-Guard/Voltas/Microtek Make wall mounting type voltage stabilizer with input volts 160-250, output volts 200-240 volts and double step relay on desired location with necessary fixing material including connection etc complete as per specification. - 42 Nos.

19		Air Conditioner Unit :- Supplying of approved make Samsung/Voltas/LG Make Hi wall split Inverter type Air Conditioner unit with cooling unit (copper coil) and condensing unit (copper coil) including 5 years compressor warranty and standard length of upto 5 metre of copper piping with insulation etc complete as per specification:
	(a)	1.5 Ton split type Inverter AC {5 Star} -24 Nos.
	(b)	2.0 Ton split type Inverter AC {5 Star} - 18 Nos.
20		Water Cooler :- Supplying, installation, testing and commissioning of 40/80 Ltrs/hr size drinking water cooler storage type Kent/Blue star/Voltas ISI marked, eco-friendly non CFC refrigerant, water tank and cooler cabinet sheet material- stainless steel {grade AISI 304} with thickness $\geq 0.8$ mm, with PUF insulation including all accessories connection etc complete as per specification. - 06 Nos.
21		RO Purification System :- Supplying, installation, testing and commissioning of 25 Ltrs/hr output capacity of Kent/Aqua Guard/Liv pure Make RO purification system with UF/UV/TDS controller and UV lamp {IS 14724 Ultra violet disinfection} and minimum three stage purification, automatic on/off, output water conforming standard IS 10500 with inbuilt storage tank including all accessories connection etc complete as per specification. - 06 Nos.
		FOLLOWING ITEMS SHALL BE DONE OTHER THAN ABOVE ITEMS FOR COMMON AREA WRD OFFICE
22		Point Wiring :- Point wiring for Light / Fan / Exhaust fan/Call Bell with 3x1.5 Sqmm FRLS PVC Insulated stranded copper conductor wire of Polycab / Havells / RR Kabel Make concealed FRLS PVC Conduit ( Heavy duty thickness of pipe should be 2 mm) Polycab / Precision / Saraswati Make with 5/6 amps modular switch, modular base and cover plate of Havells (Verona) / Legrand (Myline) / Anchor (Woods) Make and other necessary required material i.e. suitable size G.I. Box, ceiling rose, fan box, holder, dummy (Blanking) plate and Earthing the box with same size of wire and two module size Step type fan regulator & 25/32 amp A.C. Starter switch etc. internal electrification should be as per drawing with above specification (all materials should have relevant ISI mark)
	(a)	Light Point - 36 Nos.

	(b)	Twin Control Light Point - 08 Nos.
	(c)	Switch Board (for control of light & fan point) along with 01 No. 5 pin 6 Amp socket outlet & switch - 04 Nos.
23		MCB DB, SP AND SP&N MCB ('C' Series) (Legrand / Havells / Polycab Make)
	(a)	2+4 way SP&N MCB DB - 01 No.
	(b)	6 amps to 32 amps SP MCB - 04 No.
	(c)	6 amps to 32 amps SP&N MCB - 01 No.
24		LED Bulk Head Fitting :- Supplying, installation, testing and commissioning of 10 watt of LED tube light fitting Havells/Philips/Wipro Make LED Bulk Head fitting complete with Electronic Driver Heat sink Capacitor and all other accessories, including connection, earthing etc complete as per specification and P.F. should be greater than 0.9. LED chip efficacy ratio $\geq$ 100 lumens /watt. IP65 -40 Nos.
25		LED Street Light Fitting :- Supplying, installation, testing and commissioning of 45 watt of LED street light fitting Havells / Wipro / Philips Make (ISI) 230/250 volts with all accessories like driver, heat sink made of die cast aluminium with IP 66 protection and 15 KV surge protection on pole bracket, including connection, earthing Separate housing for driver etc complete as per specification- 01 Nos.

**(E) LIFT FOR WRD OFFICE**

1	LIFT FOR WRD OFFICE	08 Passenger Lift :- Supply, installation, testing & commissioning Kone / Thyssen-Krupp / Otis / Eskay Make and putting into operation and final testing of MACHINE ROOM LESS TYPE automatic lift complete with ARD and all standard equipment's, accessories and control equipment's as per manufacturer's design and as per CPWD specification (Part III LIFTS) 1981 and fulfilling following requirements on turnkey basis. - 01 Nos.
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	<p>A. Type : Passenger lift</p> <p>B. Load : 08 passenger/ 1088 Kg</p> <p>C. Speed : 1.5 metre per second</p> <p>D. Control : AC2</p> <p>E. Operation : Micro Prosser based simplex collective selective with/without lift attendant</p> <p>F. Total rise : About 12 meters</p> <p>G. Landings : 4 All on same side</p> <p>H. Floors served : Ground to 3rd floor</p> <p>I. Signals : Digital car position indicator, car travel direction indicator in car &amp; at all landings</p> <p>J. Lift shaft size : About 2500 mm width X 2100 mm depth, finished with plaster (size as per actual site conditions)</p> <p>K. Lift car size : About 2000 mm width X 1300 mm depth</p> <p>L. Car entrance : Minimum Clear opening 1000 mm wide X 2000 mm high protected with car door</p>
	<p>M. Landing entrance: Clear opening 1000 mm wide X 2000mm high protected with landing door</p> <p>N. Car door : Stainless steel two panel telescopic/centre opening flush type</p> <p>O. Landing door : Stainless steel two panel telescopic/centre opening flush type</p> <p>P. Door operation: Automatic electric power operated door with infra-red protection</p> <p>Q. Car interior : Stainless steel panel with hair line/ mirror/moon rock finish on all sides</p> <p>R. Car floor : Hard wood covered with PVC/ marble tiles</p>
	<p>S. Car ceiling &amp; lighting : Fluorescent lighting concealed by suspended false ceiling with plain acrylic diffuser. The frame of suspended false ceiling shall be of powder coated aluminium</p> <p>T. Car ventilation : Pressure fan with anodised aluminium grill</p> <p>U. Emergency lighting in car: Battery operated Emergency lighting in the lift car</p> <p>V. Intercom system : Battery operated Intercom system in lift car, machine room and control room</p> <p>W. Emergency alarm : Battery operated alarm bell system in lift car &amp; control room</p> <p>X. Position of machine room: Directly above the lift shaft</p> <p>Y. Electric power supply : AC 415 Volts 3 phase 50 Hz terminated in machine room</p> <p>Z. Fire man switch : Fire man switch at main landing terminal</p>

3		<p>Chemical Earthing :- Providing maintenance free chemical Earthing with 2-meter-long G.I. Pipes and 25 kg back filling compound. size GI pipe including making bore pit of minimum 150mm dia, providing and laying approved make Earthing Electrode of Pipe-in-Pipe technology as per IS 3043-1987 made of corrosion free G.I. Pipes having outer pipe of 80mm dia and inner pipe of 50mm dia and filling with specified qty highly conductive compound around pipe and above that with soft soil in bore pit complete and providing masonry enclosure with cover plate having locking arrangement and watering pipe with Providing and fixing 25 mm X 5 mm G.I. strip from earthing electrode to Electrical room earthing busbar &amp; Providing and fixing 6 SWG dia G.I. wire from ground floor Electrical room busbar to Terrace machine control panel - 02 Nos.</p>
4		<p>MCB DB, SP AND TP&amp;N MCB ('C' Series) :-          Supplying and fixing on surface/ recess horizontal type 6 way double door, Legrand / Havells / Polycab Make 415 volts, TPN MCB distribution board of sheet steel phosphatized and powder painted, complete with tinned copper busbar, neutral busbar, earth bar, din bar, detachable gland plate, including interconnections, earthing etc. as per specification. &amp; Supplying and fixing SP MCB 6 amps to 32 amps, DP MCB 40 amps, 240 volts, 'C' curve, &amp; TP&amp;N MCB 63 amps, 440 volts, 'C' curve, suitable for inductive load &amp; Low voltage (class -II) surge protection device (SPD) TP&amp;N 440 volts &amp; 40 amps rating, double pole, (single phase and neutral), 240 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 300 milliamperes &amp; 63 amps rating, four pole, (three phase and neutral), 415 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as per specification.</p>
5		<p>LED Bulkhead Fitting :- Supplying, installation, testing and commissioning of 10 watt LED Bulk Head fitting Havells/Philips/Wipro Make complete with Electronic Driver Heat sink Capacitor and all other accessories, including connection, earthing etc complete as per specification and P.F. should be greater than 0.9. LED chip efficacy ratio <math>\geq</math> 100 lumens /watt. IP65 - 05 Nos.</p>
6		<p>Point Wiring :- Point wiring for Light / Fan / Exhaust fan/Call Bell 05 Nos. with 3x1.5 Sqmm FRLS PVC Insulated stranded copper conductor wire of Polycab / Havells / RR Kabel Make concealed FRLS PVC Conduit ( Heavy duty thickness of pipe should be 2 mm) Polycab / Precision / Saraswati Make with 5/6 amps modular switch, modular base and cover plate of Havells (Verona) / Legrand</p>

		(Myline) / Anchor (Woods) Make and 16 Nos. Switch Board (for control of light & fan point) along with 01 No. 5/6 amp Modular Switch & 3 Pin 5/6 Amps modular type Socket Outlet, other necessary required material i.e. suitable size G.I. Box, ceiling rose, holder, dummy (Blanking) plate and Earthing the box with same size of wire etc. internal electrification should be as per drawing with above specification (all materials should have relevant ISI mark)
7		Cable :- Supplying and laying 4 x 16 sq. mm cable Polycab/Havells/KEI Make from flats Emergency Panel to machine control panel in 02 runs, one number FRLS PVC insulated, PVC sheathed, steel armoured, copper conductor control /power cable of 1.1 KV grade on surface/ existing cable tray with 1 mm thick GI saddle & include lugs/glands etc. as per specification.
		Remark :- Work includes all necessary material tools workman ship to complete the above job if any material required to complete above work which is not mentioned in above specification the contractor shall be complete the work with required material and work shall be completed as per instruction of engineer in charge of cghb.

## (F) LIFT FOR G &amp; H TYPE QUARTER (S+6)

1	LIFT FOR EACH H&G FLATS	16 Passenger Lift :- Supply, installation, testing & commissioning Kone / Thyssen-Krupp / Otis / Eskay Make and putting into operation and final testing of MACHINE ROOM LESS TYPE automatic lift complete with ARD and all standard equipment's, accessories and control equipment's as per manufacturer's design and as per CPWD specification (Part III LIFTS) 1981 and fulfilling following requirements on turnkey basis. - 02 Nos.
		A. Type : Passenger lift B. Load : 16 passenger/ 1088 Kg C. Speed : 1.5 metre per second D. Control : AC2 E. Operation : Microprocessor based simplex collective selective with/without lift attendant F. Total rise : About 25 meters G. Landings : 4 All on same side H. Floors served : Ground to 6th floor I. Signals : Digital car position indicator, car travel direction indicator in car & at all landings J. Lift shaft size : About 2500 mm width X 2100 mm depth, finished with plaster (size as per actual site conditions) K. Lift car size : About 2000 mm width X 1300 mm depth

		L. Car entrance : Minimum Clear opening 1000 mm wide X 2000 mm high protected with car door
		<p>M. Landing entrance: Clear opening 1000 mm wide X 2000mm high protected with landing door</p> <p>N. Car door : Stainless steel two panel telescopic/centre opening flush type</p> <p>O. Landing door : Stainless steel two panel telescopic/centre opening flush type</p> <p>P. Door operation: Automatic electric power operated door with infra-red protection</p> <p>Q. Car interior : Stainless steel panel with hair line/ mirror/moon rock finish on all sides</p> <p>R. Car floor : Hard wood covered with PVC/ marble tiles</p>
		<p>S. Car ceiling &amp; lighting : Fluorescent lighting concealed by suspended false ceiling with plain acrylic diffuser. The frame of suspended false ceiling shall be of powder coated aluminium</p> <p>T. Car ventilation : Pressure fan with anodised aluminium grill</p> <p>U. Emergency lighting in car: Battery operated Emergency lighting in the lift car</p> <p>V. Intercom system : Battery operated Intercom system in lift car, machine room and control room</p> <p>W. Emergency alarm : Battery operated alarm bell system in lift car &amp; control room</p> <p>X. Position of machine room: Directly above the lift shaft</p> <p>Y. Electric power supply : AC 415 Volts 3 phase 50 Hz terminated in machine room</p> <p>Z. Fire man switch : Fire man switch at main landing terminal</p>
3		Chemical Earthing :- Providing maintenance free chemical Earthing with 2-meter-long G.I. Pipes and 25 kg back filling compound. size GI pipe including making bore pit of minimum 150mm dia, providing and laying approved make Earthing Electrode of Pipe-in-Pipe technology as per IS 3043-1987 made of corrosion free G.I. Pipes having outer pipe of 80mm dia and inner pipe of 50mm dia and filling with specified qty highly conductive compound around pipe and above that with soft soil in bore pit complete and providing masonry enclosure with cover plate having locking arrangement and watering pipe with Providing and fixing 25 mm X 5 mm G.I. strip from earthing electrode to Electrical room earthing busbar & Providing and fixing 6 SWG dia G.I. wire from ground floor Electrical room busbar to Terrace machine control panel - 02 Nos.

4		<p>MCB DB, SP AND TP&amp;N MCB ('C' Series):-          Supplying and fixing on surface/ recess horizontal type 6 way double door, Legrand / Havells / Polycab Make 415 volts, TPN MCB distribution board of sheet steel phosphatized and powder painted, complete with tinned copper busbar, neutral busbar, earth bar, din bar, detachable gland plate, including interconnections, earthing etc. as per specification. &amp; Supplying and fixing SP MCB 6 amps to 32 amps, DP MCB 40 amps, 240 volts, 'C' curve, &amp; TP&amp;N MCB 63 amps, 440 volts, 'C' curve, suitable for inductive load &amp; Low voltage (class -II) surge protection device (SPD) TP&amp;N 440 volts &amp; 40 amps rating, double pole, (single phase and neutral), 240 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 300 milliamperes &amp; 63 amps rating, four pole, (three phase and neutral), 415 volts, residual current circuit breaker (RCCB), having a sensitivity current up to 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as per specification.</p>
5		<p>LED Bulk Head Fitting :- Supplying, installation, testing and commissioning of 10 watt LED Bulk Head fitting Havells/Philips/Wipro Make complete with Electronic Driver Heat sink Capacitor and all other accessories, including connection, earthing etc complete as per specification and P.F. should be greater than 0.9. LED chip efficacy ratio <math>\geq</math> 100 lumens /watt. IP65 - 16 Nos.</p>
6		<p>Point Wiring :- Point wiring for Light / Fan / Exhaust fan/Call Bell 16 Nos. with 3x1.5 Sqmm FRLS PVC Insulated stranded copper conductor wire of Polycab / Havells / RR Kabel Make concealed FRLS PVC Conduit ( Heavy duty thickness of pipe should be 2 mm) Polycab / Precision / Saraswati Make with 5/6 amps modular switch, modular base and cover plate of Havells (Verona) / Legrand (Myline) / Anchor (Woods) Make and 16 Nos.          Switch Board (for control of light &amp; fan point) along with 01 No. 5/6 amp Modular Switch &amp; 3 Pin 5/6 Amps modular type Socket Outlet, other necessary required material i.e. suitable size G.I. Box, ceiling rose, holder, dummy (Blanking) plate and Earthing the box with same size of wire etc. internal electrification should be as per drawing with above specification (all materials should have relevant ISI mark)</p>

7		Cable :- Supplying and laying 4 x 16 sq. mm cable Polycab/Havells/KEI Make from flats Emergency Panel to machine control panel in 02 runs, one number FRLS PVC insulated, PVC sheathed, steel armoured, copper conductor control /power cable of 1.1 KV grade on surface/ existing cable tray with 1 mm thick GI saddle & include lugs/glands etc. as per specification.
		Remark :- Work includes all necessary material tools workman ship to complete the above job if any material required to complete above work which is not mentioned in above specification the contractor shall be complete the work with required material and work shall be completed as per instruction of engineer in charge of cghb.

## (G) CCTV FOR WRD OFFICE

CCTV FOR WRD OFFICE	Supplying, installation, testing and commissioning of 2 MP Dome Camera Honeywell/Bosch/Pelco/CP plus MAKE weather & dust proof IP based Fixed Lens day/night Camera (IP66) 2 MP CMOS Image Sensor, H.264 triple-stream encoding, WDR (120dB), Day/Night UL CE FCC Certified as per specification-18 nos. with Supplying, installation, testing and commissioning of 8 Channel NVR Honeywell/Bosch/Pelco/CP plus MAKE 2 Sata port - Up to 16 channel IP camera input, Max 200 Mbps incoming bandwidth, Smart H.265+/H.265/Smart H.264+/H.264 dual codec decoding, Up to 8MP resolution preview and playback, Support 2 SATA HDDs up to 6 TB each, 2 USB (1 USB 3.0, 1 USB2.0) , 1 HDMI / 1 VGA simultaneous video output , ONVIF Version 2.4 conformance , Alarm In / out 4/2 , Two way talk 1 Channel Input, 1 Channel Output RCA , 1 RJ-45 port (10/100/1000Mbps), as per specification -06 nos. with Supplying, installation, testing and commissioning of 8 Port Manageable PoE Switch D-Link/Hik vision/SE MAKE - 10/100/1000 8 Port with 2 Giga SFP uplink, L2 Managed PoE switch , Power Budget max 96 W , single port 30 W , AI Extend , AI VLAN as per specification.-06 nos.
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		<p>with Supplying and drawing UTP 4 pair Cat 6 LAN wire  POLYCAB/HAVELLS/RR CABEL MAKE from CCTV TO RACK in  surface/ concealed FRLS PVC conduit as per specification I/C  Supplying, installation, testing and commissioning of 6 TB  Surveillance HDD WD/TOSHIBA/HITACH MAKE etc Complete as per  required-12 NOS WITH Supplying, installation, testing and  commissioning of 6U Indoor Rack VALRACK/DATA  RACK/PREIDENT/D-LINK MAKE- Wall mount 6U 450D With Front  Glass Door Lock &amp; Key 550 6U - loaded with cable manager + PDU  + Fan complete as required-06 NOS. with Supplying, installation,  testing and commissioning of 43 inch, size LED Monitor  LG/SONY/LENOVO/DELL/SAMSUNG MAKE, table/wall mount with  inbuild speaker minimum 5W x 2,with minimum 1 No of HDMI and  USB port including remote control, connecting cable, batteries, and  all accessories, connection etc complete as per specification 06  NOS and necessary Supply, installation and testing for HDMI cable.  Supplying, installation, testing and commissioning of Bulk  Connectors for complete CCTV  System as per required.</p>
		<p>Remark :- work includes all necessary material, tools &amp;  workmanship to complete the above job if any material required to  complete above work which is not mentioned in above specification  the contractor shall be complete the work with required material no  any additional payment will be made for the same and work shall  be completed as per instruction of engineer in charge of CGHB.</p>

EXTERNAL ELECTRIFICATION GENERAL SPECIFICATION		
S. No.	Description	SCOPE OF WORK
1	Supply & Erection of Street Light Pole & pole to pole Cable	<p>Supply of 6 metre high, dia 130mm at bottom and 90mm at top, base plate size 220x220x12mm, foundation bolts 600mm long hot dipped galvanized (in single dip to minimum 75 micron) octagonal pole BAJAJ/TRANRAIL/RR ISPAT(CONSOUL) MAKE made of 3mm thick steel grade E-350 sheet having window and flush cover with locking arrangement at suitable height from base for cable termination block, pole suitably reinforced with welded steel section at window cut section to make the strength of pole unaffected, with following minimum specifications with 4 way terminal connector including 3mm thick anchor plate, 4 nos 20mm dia foundation bolts of EN8 grade, and as per IS 2062 &amp; BS EN: 10025. (designed for wind speed upto 180km/hr, IS: 875 Part 3) Erection in suitable RCC foundation in Cement Concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 20 mm nominal size) for 6 metre high GI octagonal pole including steel reinforcement form work, embedding 2 nos 50mm dia PVC pipe for cable entry in each foundation, excavation disposal of surplus soil and curing etc. as per specification. With Providing and making suitable CC pole collar (muffing) in Cement Concrete 1:3:6 (1 cement: 3 coarse sand: 6 graded stone aggregate 20 mm nominal size) of size 0.4 m dia and 0.4 m height from existing foundation above pole with earthing 25mm X 5 mm G.I. Strip i/c</p>

		<p>watering pipe 20 mm dia GI with 40 x 20 mm reducer connection etc. complete with refilling the pit as required i/c excavation of pit in all type of soil providing and making brick masonry chamber of suitable size with CI frame and cover funnel etc complete as per IS specification with pole to pole &amp; control panel to pole connected through 4 X 10 sqmm POLYCAB/HAVELLS/KEI MAKE one number FRLS PVC insulated /XLPE, PVC sheathed, steel armoured, aluminium conductor power cable of 1.1 KV grade with necessary brass compression gland, aluminium lugs &amp; ferul/lugs in 63 mm outer dia HDPE pipe FINOLEX/SUPRIME/KSR MAKE of 4kg/sqcm in ground below road, path etc at a depth not less than 40 cm and upto 90 cm including excavation, dismantling of road if required and refilling the trench with excavated material, ramming and making the surface good etc. as required. - ( 41 Nos.) (Remark:- lay-out for Above quantity of pole shall be approved by Engineer-in-charge)</p>
2	Supply, Installation, Testing & Commissioning of Street Light Fitting with Cable & Necessary Items	<p>Supplying, installation, testing and commissioning of 45 watt 230/250 volts LED street light BAJAJ/HAVELLS/CROMPTON MAKE fitting with all accessories like driver, heat sink made of die cast aluminium with IP 66 protection and 15 KV surge protection on pole bracket, including connection, earthing, Separate housing for driver etc complete as per specification and P.F. should be greater than 0.9. LED chip efficacy ratio <math>\geq 120</math> lumens /watt- 49 Nos. with Fixed on Single Over Hang 0.75 meter Long -33 Nos &amp; Double Over Hang 0.75 metre Long- 08 Nos street light pole bracket BAJAJ/TRANRAIL/RR ISPAT(CONSOUL) MAKE on existing pole made out of 50 mm dia GI "B" class pipe welded to 300 mm long GI pole canopy of suitable dia at a angle of 102.50 including having GI triangular stiffener of size 150 X 50 X 5 mm thick, making arrangement for tightening the bracket with pole by providing suitable size heavy duty nuts and bolts in canopy etc. as per specification &amp; the above street light fitting shall be connected individually with 3X1.5 sqmm proper stranded cable POLYCAB/GLOSTER/KEI MAKE through</p> <p>Supplying and fixing 6 amps to 32 amps, SP MCB, 240 volts, 'C' curve L&amp;T/ABB/LEGRAND MAKE with connections, testing and commissioning etc. as required.</p>

3	Supplying, installation, testing and commissioning LED BOLLARD	Supplying, installation, testing and commissioning of 9 watt 230/250 volts LED BOLLARD fitting Philips/Havells/Wipro make cool white/warm white {Colour Temperature 3000/4000/5600/6000 K} with electronic driver, heat sink, capacitor and all other accessories on existing foundation/ pole bracket, including connection, earthing etc complete as per specification. P.F. should be greater than 0.9. LED chip efficacy ratio $\geq$ 100 lumens /watt. with necessary cable and earthing. -( 20 Nos.)
4	Street Light Panel	Design, Fabrication, Supply, Erection, Testing and commissioning of Powder coated, Weather Proof Double door type Feeder pillar fabricated out of 14 gauge CRCA sheet steel in cubical, free standing, dust and vermin proof, with reinforcement of suitable size angle iron, channel, T iron or flats as required. Feeder pillar shall be treated with all anticorrosive process before painting as per specification. Including connecting cables of required size & length , numbering of incoming & outgoing terminals & feeder pillar i/c suitable size of MS Panel Stand as per Direction of Engineer -In-charge. (A) INCOMER- 1No. ABB/Legrand/L&T make 4 Pole 40A TPN MCCB (25 KA), 1No. 20A FP Contactor, AOM switch & Timers for 24 Hrs. setting. (B) Metering & Indication- 1 set of phase indicating lamps (R,Y,B) (C) BUS-BAR-1 Set of ABB/Legrand/Havells make 63A TPN Aluminium Bus Bar with colour coded PVC Sleeves. (D) OUTGOINGS-03 Nos. ABB/Legrand/L&T make 20/32A FP MCCB, (25 KA)and earthing with 25x5 mm GI strip 2 meter long GI maintenance free chemical earthing -02 nos. with necessary required material.-( 01 Nos.)
5	Supply & Erection of HT Pole & earthing	Supply and rejection of H Beam 152x152 mm 11 meter long 37.1 kg/Meter Weight. HT over head line single length supports complete with aligning and keeping it in truly vertical position, including digging of required size filling with M15 grade cement concrete of 0.60 meter. Dia of required depth around the pole including muffing of 0.50 meter from ground level of 0.45 meter dia with plaster & 02 coat of approved make weather proof paint as per specification with 20 cm thick base foundation refilling the pit including painting of pole with bitumen paint in bottom and one coat of red oxide and two coats

		<p>of aluminium paint etc. of approved make the depth of foundation shall be 1/6 of the length of pole i/c Providing and fixing earthing arrangement for HT/LT poles with GI lead of 115 turns of 50mm dia connection with bracket/cross arm by pole with 4 mm dia GI lead through 15 mm dia 'B' class approved make GI protection pipe of length from bottom of pole to 1.5 meters above ground level packing of charcoal powder and salt as per specification including excavation of pit in all type of soil / rocks etc. complete- 05 Nos. with Supplying and Fixing of 11 KV Denger board &amp; Barbed wire on each vertical pole.</p> <p>Length of barbed wire not less then 5 meter. (Remark:- lay-out/make for</p> <p>Above quantity shall be approved/decided by Engineer-in-charge)</p>
6	Supply & Drawing of 11 K.V. Line Conductor & its accessories	<p>Supply and erection of Raccoon 6/1/4.09mm dia with calculated aluminium area 78.83 sq.mm , weight 319 kg/ km (198 amps) ACSR (aluminium conductor steel reinforced) confirming to IS 398-1961 of approved make of required length for 11 K.V. line on existing support with stringing, binding with insulator, jointing wherever required, jumping, tearing off connection etc complete etc. as required and clearing of obstacles (if any) at approved make Disc/ Pin insulator work i/c Supplying and fixing of angle/channel/flat iron/reinforcement of 'H' BEAM fitting for over head lines/ cross arms/brackets/ clamps etc. including nut and bolts required holes welding and other necessary materials including antirust and one coat of aluminium paints etc. as required thickness of are not less then attached standard weight.</p> <p>Supplying and rejection of Stay Rod 20 mm with 7/3.15 mm GI stay wire complete with stay rod, anchor plate thimble, stay clamp, with 1 No. Anti Skid Clamp turn buckle etc. with stay wire including excavation in all type of soil/rocks and foundation in cement concrete 1:3:6 complete of required size and other necessary materials complete as per specification for line. ( Remark- Requirement of strud/Stay set for line support shall be decided by Engineer-in-Charge. )</p>

7	Supply, Laying and testing HT Cable & accessories	<p>Supply, Laying and Testing of HT Cable from 11 K.V. Over head line/cut point to CSS (Compact sub station) of 3 X 240 sqmm one number XLPE, steel armoured, aluminium conductor power cable of 11 KV grade in required size 300 mm width X 50 mm depth 1.6 mm thickness perforated hot dipped Galvanised Iron cable tray</p> <p>(Galvanisation thickness not less then 50 microns) with perforation not more than 17.5% rigidly suspended from the ceiling with G.I. suspenders at a distance not more than 2.5 metre and near every junction/ joint etc complete as per specification. with necessary supplying and making 240 sq. mm INDOOR cable end jointing with heat shrinkable cable jointing kit including lugs and other jointing materials, for 240 sqmm size of 3 core, XLPE aluminium conductor cable of 11 KV grade with Supplying and making 240 sq mm OUTDOOR cable end jointing with heat shrinkable cable jointing kit including lugs and other jointing materials, for following size of 3 core, XLPE aluminium conductor cable of 11 KV grade as per specification, Supplying and making 240 sq. mm STRAIGHT THROUGH cable jointing with heat shrinkable cable jointing kit including ferrule and other jointing materials, for following size of 3 core, XLPE aluminium conductor cable of 11 KV grade with Supplying and fixing cable route marker with 10 cm X 10 cm X 5 mm thick G.I. plate with inscription there on, bolted /welded to 35 mm X 35 mm X 6 mm angle iron, 60 cm long and fixing the same in ground as required.- (01 run for main cable and 01 run for stand by cable.)</p>
8	Supply, Laying and testing LT Cable & accessories	<p>Supply, Laying and Testing of LT Cable from CSS (Compact sub station) to Metring panel, WRD office building main distribution panel, DG distribution panel of 3.5 x 150 sq. mm. one number FRLS PVC insulated , PVC sheathed, steel armoured, aluminium conductor power cable of 1.1 KV grade in cable trench with as per specification, IS: 1554 (1988, Part 1) &amp; IS: 7098 (1988, Part 1) with necessary brass compression gland, aluminium lugs in in required size 300 mm width X 50 mm depthX 1.6 mm thickness perforated hot dipped Galvanised Iron cable tray</p> <p>(Galvanisation thickness not less then 50 microns) with perforation not more than 17.5% rigidly suspended from the ceiling with G.I. suspenders at a distance not more</p>

		than 2.5 metre and near every junction/ joint etc complete as per specification-(02 run for every panel.)
9	Pump panel	Design, manufacture, supply and fixing of outdoor type floor mounted weather, dust and vermin proof of IP:55 type LT main feeder pillar distribution box made of 16 gauge MS sheet with clamping arrangements, lockable hinged door duly painted on all sides with red oxide, anti rust and corrosion treatment, two coats of synthetic enamel paints or approved make and shade consisting of following fittings.(i) Supplying and fixing 63 Amp TPN MCCB, approved make for incomer connection - 01 Nos.(ii) Supplying and fixing 100 Amp 04 Strip aluminium bus bar supported on epoxy insulator - 01 set.(iii) Supplying and fixing 40 Amp TPN MCCB, approved make for outgoing connection - 03 nos.(iv) Supplying and fixing GI earth terminal - 02 nos.(v) Supplying and fixing 07 lever Godrej padlock with keys - 02 nos.(vi) Light points with switch and holder with 1x28 watt CFL-01 nos.(vii) connecting cables as required.(viii) Providing Energy meter chamber which is suitable for 3 Phase Energy meter - 01 nos.(ix) LED type Indicator - 03 no's, Digital ammeter, Voltmeter & Frequency with selector switch and Protection Fuse-03 no's and earthing with 25x5 mm GI strip 2 meter long GI maintenance free chemical earthing-02 nos. with necessary required material.-(01 Nos.)
10	Common area panel for G Type & H Type Block	DISTRIBUTION PANEL BOX FOR EMERGENCY SUPPLY - 05 WAY - Design supply installation and testing of outdoor type (IP 55) distribution panel boards made of 2mm thick crack sheet steel enclosure duly Powder coated free standing floor/wall mounted type. (A) Incomer: - 01 no's 63 Amp, 36 KA four pole MCCB of approved make with OL/SC release ON/OFF indication Lamp. (B) Four pole 100Amp AL bus bar, PVC insulated (C) Outgoing: - 02 nos 40 Amp 25 KA four pole MCCB of approved make with SC/OL release and ON/OFF indication lamp, 01 Nos 32 Amp TP&N MCCB and 02 Nos 06/32 Amp SP&N MCB. (D) Supplying and fixing of GI earth terminal - 02 Nos. (E) Supplying and fixing of 07 lever Godrej padlock with keys - 02 Nos.(F)Connecting cables as required (G) Led type Indicator - 03 Nos. Digital ammeter, Voltmeter & Frequency with selector switch and protection fuse - 03 Nos.(H)

		<p>Providing a locking arrangement of good quality with 3 nos. keys. and tagging all the incoming &amp; outgoing MCB/MCCB, cable etc. directed by as per site engineer in charge. All the incoming &amp; outgoing cables are properly terminating with required size of lugs. I/c connected with DG distribution Panel with 4x25sqmm cable -02 run for each panel in hdpe pipe and earthing with 25x5 mm GI strip 2 meter long GI maintenance free chemical earthing-02 nos with necessary required material -02 nos.(01 Nos for each block.)</p>
11	12 way Metring panel	<p>Design, manufacture, supply and fixing of outdoor type, weather proof flush model type cubical distribution panel board made of CRCA ms sheet 14 SWG(panel sides, upper, lower and ft. doors) 16 SWG (back side and compartment) duly fabricated, duty power coated painted on all sides, anti rust and corrosion treatment, fixed in position as required with separate chambers for bus bar, energy meters, incoming and outgoing switches/MCCB/MCB, cable, alleys making good damages done, making internal connection &amp; numbering/making of incoming and outgoing cables, bus bar, I/O switches, MCCB, MCB energy meter etc. complete with appropriate size of P.V.C insulated cable/wires, including providing required size of lungs and glands clamping arrangements, lockable hinged door etc complete as per specification with following material consisting of of following fitting Incoming- (A) supplying and fixing ABB/LEGARAND/L&amp;T make 160 amp capacity 4 pole 25 KA breaking capacity MCCB 415V, 50Hz(Icu = lcs) with rotary operated mechanism and padlocking arrangement- 02 Nos . (01 No. for Incomer &amp; 01 No. for Interconnection). (B) 1 set supplying and fixing of 250 amps 4 strip aluminium bus bars with insulation sleeves fixed on suitable insulators, nut, bolt, washer (0-500 volts)-01 Nos (D) LED indication lamp (R,Y,B) for phase indicating- 02 set (01 No. for Incomer &amp; 01 Nos for Interconnection.)(E) 200/5 CT Coil-01 set. Outgoing.(A) Providing 12 nos. 03 phase energy meter chamber of suitable size with 6mm thik</p>

12	100 KV Distribution Panel	DG	<p>backlight sheet, fixing arrangement etc. (if required/ CSPDCL</p> <p>DISTRIBUTION PANEL BOX FOR 100 KVA D.G. SET - Design supply</p> <p>installation and testing of outdoor type (IP 55) distribution panel bords made of 2mm thick crca sheet steel enclosure duly Powder coated free standing floor/wall mounted type. (Make of MCCB &amp; MCB - L&amp;T/ABB/ Schneider)(A) Incomer: - 02 nos 160 Amp, 35 KA four pole MCCB of approved make with OL/SC release ON/OFF indication Lamp Four pole 300Amp AL bus bar, PVC insulated (B) Outgoing: - 08 nos 63Amp 25 KA four pole MCCB ABB/ L&amp;T make with SC/OL release and ON/OFF indication lamp Supplying and fixing of GI earth terminal - 02 Nos</p> <p>Supplying and fixing of 07 lever Godrej padlock with keys - 02 Nos</p> <p>Connecting cables as required (min. 10.00 sq mm copper cable)Led type Indicator - 03 Nos. Digital ammeter, Voltameter &amp; Frequency with selector switch and protection fuse - 03 Nos Providing a locking arrangement of good quality with 3 nos. keys. and Tagging all the incoming &amp; outgoing MCB/MCCB, cable etc. directed by as per site engineer in charge. All the incoming &amp; outgoing cables are properly terminating with required size of lugs i/c supplying, laying and testing of Cable for DG income, service cable -3.5X150 Sqmm Aluminium armoured cable for outgoing from DG Panel to electrical and pump room panel- 4X25 Sqmm Aluminium Armoured Cable including connection with suitable size lugs and gland. and earthing with 25x5 mm GI strip 2 meter long GI maintenance free chemical earthing with necessary.</p>
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13	DG Specification	<p>set Supplying, installation, testing and commissioning of 100 KVA capacity diesel Generating Set (alternator directly coupled to diesel engine) compete in all respect broadly comprising of following and as per CPCB 2 norms, including following specification.</p> <p>A. Alternator : Self excited, brush less type, of following capacity, 3 phase, 415 volts 50 Hz, 4 pole, AC alternator complete with all accessories. B. Engine : water cooled diesel engine of suitable BHP for rated alternator at 1500 rpm, turbo charged, direct injection type, 4 stroke, 4/6 cylinder including specified size fuel tank of approved design and shape duly calibrated and painted with one coat of primer and two coats of synthetic enamelled paint of approved colour, residential type silencer with exhaust MS pipe (upto 2 metre beyond silence) duly wrapped with asbestos rope of legging of specified quality and specification. C. AMF Panel : Cubical, compartmentalized, AMF panel board with all suitable size power and control contactors, switches, meters and other accessories, internal wiring, connection, interconnection etc. for trouble free smooth functioning of DG Set complete with battery charger and leads as per specification. D. Base Plate : Common base plate of required size for mounting of engine alternator set fabricated from MS channel and vibration damping arrangement with cushy foot mounting i/c painting etc. as per specification. necessary required earthing of 2 meter long GI maintenance free chemical earthing connected with DG set to earth pit with 25 mm X 5 mm GI strip. Including making cement concrete foundation suitable for 100 KVA diesel generator set, GI Channel fencing with gate &amp; spreading hard stone aggregate 25mm size in out door switch yards as per direction of Engineer-in-charge. i/c excavation, sand cushioning at the bottom and on all sides in accordance- with manufacturers design or as required and also MS grill shade with gi paint as per design approved by Engineer In Charge. Providing and erecting floor mounted sand/ water bucket stand for keeping 4 nos. of fire bucket, 1500 mm in length and 900 mm in height made out of 30 X 30 X 4 mm angle iron welded with 4 hooks and duly painted with one coat of zinc chromate primer and 2 coat of synthetic enamel paint of post box red colour etc complete. Supplying G.I. Fire buckets with round bottom having at least 9 lit. capacity duly painted with one coat of zinc chromate primer and 2 coat of synthetic enamel paint of post box red colour and filled with dry</p>
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		sand and kept on provided wall hook or stand etc complete. Supply and erecting following ISI marked Fire extinguishers on wall/ column including erecting bracket etc complete. CO2 type Fire Extinguisher ISI marked confirming to IS:15683:2018 Capacity 3Kg. INITIAL CHARGE:- Carbon dioxide used in extinguishers shall comply with IS 15222. FIRE RATING:- 34B. Complete with Hose Assembly and horn, locking arrangement, operation manual, bracket with two screw and sleeve.- 02 Nos (01 Nos for WRD office and 01 nos for common area of residential) quarter.
14	Lightning Arrester Specification	Supplying Fixing & Testing of ABB/LPI/indelac make protection Radius 63 meter. Advanced technology lightening protection early streamer emission (ESE) lighting conductor air termination complete with digital flash counter mounting mast guywire etc as required with 25x5 mm copper strip -02 run and 02 no's copper chemical earthing for each lighting arrester with necessary required material as per direction of engineer in charge.- (01 nos.)
15	WRD office Main Distribution Panel	Design manufacture supply and fixing of outdoor type floor MAIN LT PANEL (INDOOR TYPE AND BASE MOUNTED PANEL) Electric Panel Board Completed with CR Sheet(16/18SWG) Design, manufacture, supply, fixing & Testing Colour Siemens Grey Powder Coated. (A) RYB LED indicators with control fuse/MCB. (02 SET), (B) AMP+VOLT METER,ASS,VSS,C.T. COIL (02 SET) DIGITAL TYPE, (C) 300 Aluminium Busbar with Heat Shrinkable Colour Coded SLEVE. (02 SET),

			<p>(D) Panel wiring completed with Multi Stranded colour coded Minimum 16 sqmm FRLS Copper wire (MAKE-POLYCAB/RR/GOLSTER/FINOLEX FRLS) with Copper Lugs, Fiting &amp; Internal Wiring connection &amp; Labour charge. (COMPLETED).</p> <p>(E) Incomer 250A,25KA 4P MCCB ROTATARY TYPE WITH SPREADER TERMINAL (01NOS) And 160A,25KA 4P MCCB ROTATARY TYPE WITH SPREADER TERMINAL (01NOS) (MAKE-B SWITCHGEAR /L&amp;T/HPL/HAVELLS),</p> <p>(F)Outgoing 160A,4P,MCCB ROTATARY TYPE WITH SPREADER TERMINAL (01 NOS.) And Outgoing 100A,4P,MCCB ROTATARY TYPE WITH SPREADER TERMINAL (15 NOS.) (MAKE OF MCB &amp; MCCB - L&amp;T/ABB/SCHNEIDER). ANGLE STAND/ BASE CHANNEL (01SET).</p> <p>Providing a locking arrangement of good quality with 3 nos. keys. and</p> <p>Tagging all the incoming &amp; outgoing MCB/MCCB, cable etc. directed by</p>
16	Compact Station	Sub	<p>Supply, Installation, Testing &amp; Commissioning of Schneider/Siemens/ABB Make floor mounted Outdoor type package substation in required size of foundation with facility for internal lighting, earthing, padlocks etc. Connection between RMU &amp; transformer will be Required length of (HT 11 KV) 3Nos., 1C X 95 Sqmm. Aluminium cable and connections from transformer to LT ACB sleeved aluminium bus bar. Package Substations will have following equipment. (1) HT side non extensible SF6 Insulated Compact Switch Gear of 12 KV 630 AMP RMU with 02 Nos. LBS and 01 nos VCB for X-mer protection having fault rating (Short Time Rating) of 21KA for 3 Sec including Fault Passage Indicator on each LBS. The operation of LBS enable/SCADA compatible motorized. Self-powered relay of make of Siemens (78R45)/Schneider (DPX-VS)/C &amp; S - CSPDR V2-300 must be enclosed her with Epoxy Type CT 40/1A Class 1.0, 5 VA for metering &amp; CT 40/1A CLASS: 5P 10, 50 VA for protection. All Auxiliary contact push on -push off type As required Potential X-mer 11 KV/√3/110/√3 100</p>

		<p>VA CL : 0.5 As applicable. Battery capacity of 10 A.H. Battery (Minimum) provided with Battery Charger/Power Pack. Fixed type capacitive voltage induction LCD/LED type. Cable termination on bottom side suitable for 300 Sqmm. All Incoming/Outgoing/VCB &amp; LBS must be in separate chamber for safety purpose. Emergency trip button push type, shunt trip/series trip coil-24 VDC and standard manometer. ON, OFF, TRIP indication on the front</p> <p>VDC and standard manometer. ON, OFF, TRIP indication on the front</p>
		<p>mimic on the panel, AB3 card/master trip relay for master trip operation.</p> <p>(2) 11/0.433 Kv 500 KVA Oil Type X-mer having Copper winding A Class insulation with Energy Efficiency Level-02. All the technical parameter of the X-mer as per IS 1180 Level-2 &amp; Latest. (As per Applicable valid IS: if any type of test which is compulsory on the same capacity of X-mer Provided by the manufacture/ Contractor which solo born by Contractor).(3) LT Side having 01 No. 800 amp ACB with O/C,E/F protection and having 06 nos 250 amp Capacity 04 Pole MCCB 50KA, ICS=100% ICU, adjustable microprocessor based MCCB. (Make of MCCB L&amp;T/ABB/ Schneider).(4) RMU, Transformer Chamber and LT Chamber shall be IAC tested for 21 KA for 1 Sec. degree of protection for encloser RMU IP 54, IP3X with front cover opened &amp; IP67 for SF6 level (H.V. Part).necessary required earthing of 2 meter long GI maintenance free chemical earthing connected with CSS to earth pit with 25 mm X 5 mm GI strip -08 Nos. Including making cement concrete foundation suitable for CSS, GI Channel fencing with gate &amp; spreading hard stone aggregate 25mm size in out door switch yards as per direction of Engineer-in charge. i/c excavation, sand cushioning at the bottom and on all sides in accordance- as per design approved by Engineer In Charge. Providing and erecting floor mounted sand/ water bucket stand for keeping 4 nos. of fire bucket, 1500 mm in length and 900 mm in height made out of 30 X 30 X 4 mm angle iron welded with 4 hooks and duly painted with</p>
17	Solar Power Plant	<p>one coat of zinc chromate primer and 2 coat of synthetic enamel 22 KW and 10 KW on-grid solar power plant with all type of coddle formalities ( if required ) through CREDA/CSPDCL/ANY OTHER GOVT. DEPARTMENT.</p>

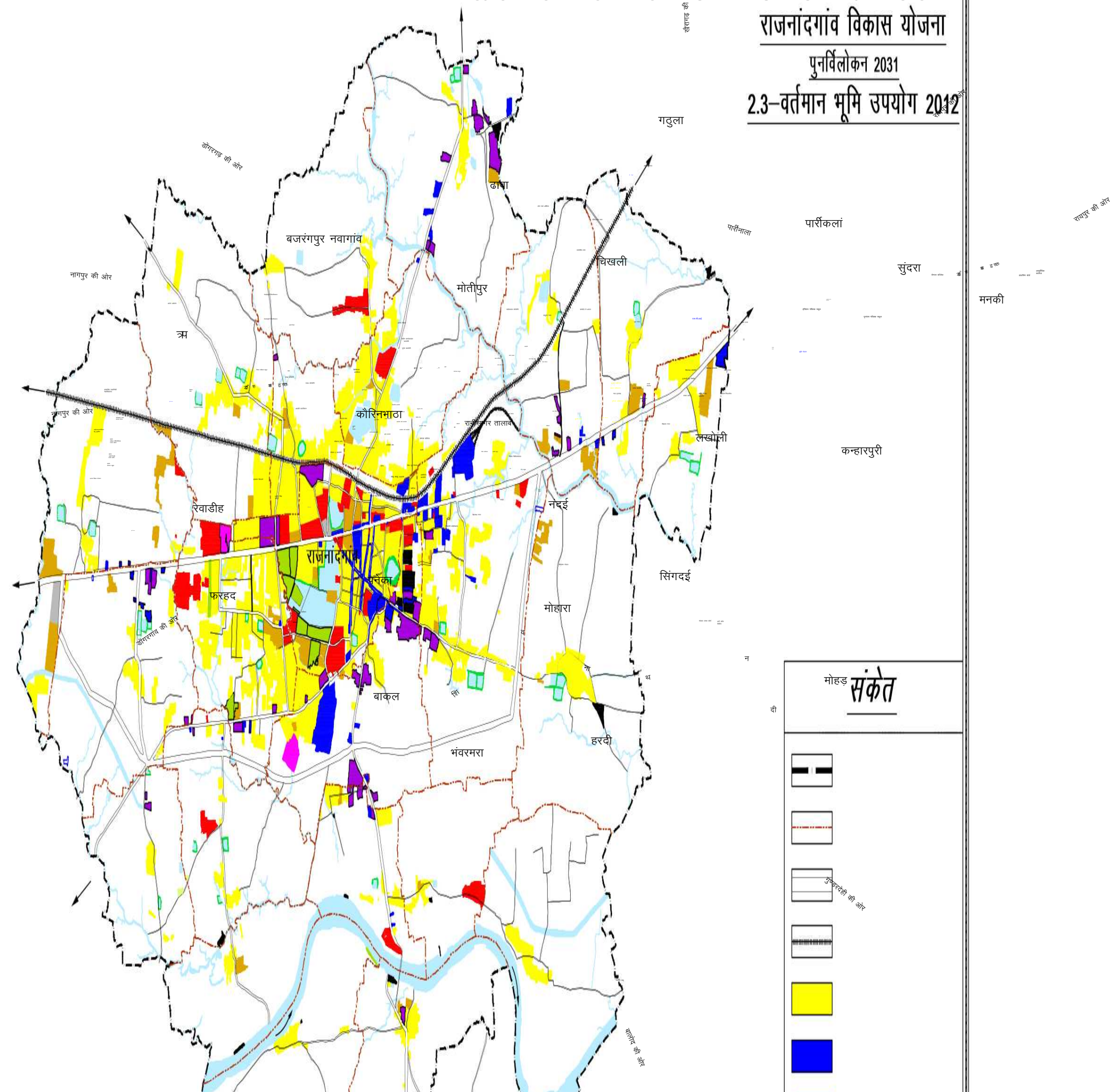
S.NO	TERMS AND CONDITION FOR ELECTRICAL WORK
1	It is compulsory to execute the all type of electric work through valid "A" Class electrical contractor registered in CG licencing board.(copy of registration should be submitted along with concern letter).
2	Developer shall be responsible for sanction of estimate as per attached technical specification according to latest CSERC norms for external electrification work through overhead/underground system from CSPDCL along with payment of supervision charges, system strengthening charges, transformer testing charges, line charging permission charges, GST and other charges( if required) to the cspdcl.NO extra payment or reimbursement will be made to the developer.
3	All necessary coddle permissions from CSPDCL/Electrical Safety Department/any other Govt. Department for above installation should be obtained by the developer on his own cost.
4	In Case of any technical dispute (if arises) general specification for electrical work (part ii external) 1974 of CPWD and I.E. rules 1956 with upto date amendments will be applicable & final.
5	Make & specification of all electrical items as specified should be strictly followed by developer in case of internal electrification it is compulsory to got approval of SLD/DWG form CGHB.
6	The developer will be responsible for any theft and damage of material (if occurs) till the completion of work and taken over by CSPDCL/Concern Department of CG GOVT.
8	It is responsibility of developer to handing over the External electrification work to CSPDCL along with line charging certificate and other required documents.
9	It is compulsory to submit the copy of handed over document to CGHB.
10	The developer will be responsible for approval of line route Installation drawing & charging permission from CG Licensing to CGHB
11	The developer should submit the GTP (i.e. General Technical particulars) of all the major electrical equipment (i.e.) CSS, LT feeder pillar, lift, DG set, Lightening Arrester, Street light pole, street light fitting, Cable, Panels etc & got approval from CG Housing Board before supply of any electrical material.
12	Factory inspection by inspection team is necessary for testing of CSS / TRANSFORMER / PANEL / DG SET before supply of the same on developer cost. No extra payment or reimbursement will be made to the developer for the same.
13	It is compulsory for all type of panel work the panel manufacture should have valid C.P.R.I. approval.

## ***ANNEXURE 4***

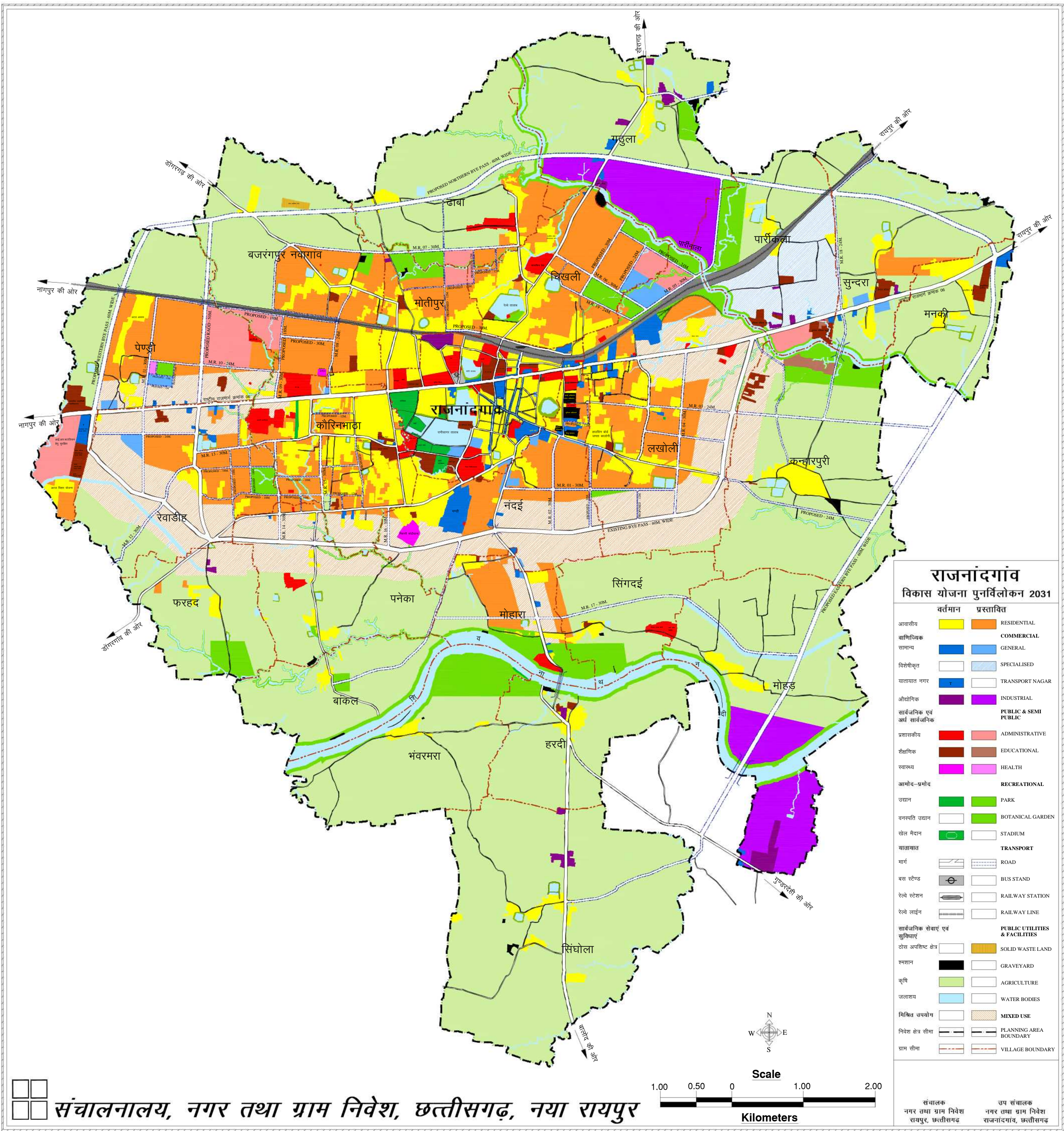
### ***(Land Use Details)***

पुनर्विलोकन 2031

### 2.3-वर्तमान भूमि उपयोग 2012



निवेश क्षेत्र सीमा  
ग्राम सीमा  
मार्ग  
रेल्वे लाईन  
आवासीय  
वाणिज्यिक  
औधोगिक  
शैक्षणिक  
स्वास्थ्य  
आमोद प्रमोद  
जलाशय



# Land Use Change Approval Letter By Government Of Chhattisgarh

“विज्ञापन पोस्टर के अन्तर्गत डाक शुल्क के  
नगद भुगतान (बिना डाक टिकट) के प्रेषण  
हेतु अनुमत क्रमांक जी. 2-22-छत्तीसगढ़  
नजद / 38 सि. से. भिलाई, दिनांक  
30-05-2001.”



पंजीवन क्रमांक  
“छत्तीसगढ़/दुर्ग/09/2013-2015.”

## छत्तीसगढ़ राजपत्र (असाधारण) प्राधिकार से प्रकाशित

क्रमांक 564 ]

नवा रायपुर, बुधवार, दिनांक 23 जुलाई 2025 — भाषण 1, अंक 1947

आवास एवं पर्यावरण विभाग  
मंत्रालय, महानदी भवन, नवा रायपुर अटल नगर

नवा रायपुर अटल नगर, दिनांक 16 जुलाई 2025

अधिसूचना

क्रमांक LAND-667/2025-HOUSING/32.— राज्य शासन एतद् द्वारा छत्तीसगढ़ नगर तथा ग्राम निवेश अधिनियम, 1973 की धारा 23-क (1) के खण्ड (क) के अंतर्गत राजनांदगांव विकास योजना (पुनर्विलोकित) 2031 में अत्यावश्यक लोक प्रयोजनार्थ निम्नानुसार भूमि का उपांतरण प्रस्तावित करते हुए सूचना दो प्रमुख दैनिक स्थानीय समाचार पत्रों में एक दिन प्रकाशित की गई थी:-

राजनांदगांव विकास योजना (पुनर्विलोकित) 2031 में उपांतरण

क्र.	ग्राम	खसरा कमांक	कुल रकबा	राजनांदगांव विकास योजना (पुनर्विलोकित) 2031 अनुसार भू-उपयोग	अधिनियम की धारा 23-क के तहत उपांतरण
1.	नंदई	907 / 1	0.8050 हेक्टेयर	सार्वजनिक एवं अर्द्ध सार्वजनिक	मिश्रित भू उपयोग
		907 / 2	0.162 हेक्टेयर	सार्वजनिक एवं अर्द्ध सार्वजनिक	
		907 / 3	0.235 हेक्टेयर	वर्तमान आवासीय	
		907 / 4	0.4860 हेक्टेयर	वर्तमान आवासीय सार्वजनिक एवं अर्द्ध सार्वजनिक	
2.	राजनांदगांव	126	0.336 हेक्टेयर	वर्तमान आवासीय	
कुल रकबा			2.024 हेक्टेयर		

- उक्त उपांतरण छत्तीसगढ़ गृह निर्माण मंडल की रिडेवलपमेंट योजनांतर्गत आवासीय तथा सार्वजनिक एवं अर्द्धसार्वजनिक से मिश्रित भू-उपयोग किए जाने हेतु।
- सूचना में उल्लेखित निश्चित समयावधि में कोई आपत्ति/सुझाव प्राप्त नहीं हुआ है।
- अतः राज्य शासन एतद् द्वारा राजनांदगांव विकास योजना (पुनर्विलोकित) 2031 में उपरोक्त उपांतरण की पुष्टि करता है। उक्त उपांतरण राजनांदगांव विकास योजना (पुनर्विलोकित) 2031 का अंगीकृत भाग होगा।

छत्तीसगढ़ के राज्यपाल के नाम से तथा आदेशानुसार,  
देवेन्द्र भारद्वाज, विशेष सचिव.

1127

## ***ANNEXURE 5***

### ***(FAR Details)***

उपरोक्त के अतिरिक्त ऐसे समस्त औद्योगिक गतिविधियां स्वीकार्य होंगी जो कि उपरोक्त से संबंधित और गैर प्रदूषणकारी हो।

### 5.16 मिश्रित उपयोग के मापदण्ड :-

नगर के क्षेत्रीय मार्गों एवं वृत्तमार्गों पर मिश्रित उपयोग का प्रावधान किया गया है। मिश्रित उपयोग में वाणिज्यिक आवासीय एवं सार्वजनिक अर्द्ध सार्वजनिक तीनों उपयोगों में से किसी भी उपयोग को विकसित किए जाने की स्वतंत्रता भूखण्ड धारी को होगी भूखण्ड के आकार के आधार पर आच्छादित क्षेत्र, फर्शीक्षेत्र का वर्णन सारिणी क्रमांक 5-सा-5 में दिया गया है। मिश्रित उपयोग की गहराई मानचित्र में (भूखण्ड उपयोग मानचित्र) दर्शायी गई है, जो कि लगभग 400 मीटर सड़क को दोनों ओर होगी।

राजनान्दगांव :- मिश्रित उपयोग के मापदण्ड

(5-सा-5)

भूमि का आकार (वर्ग मीटर में)	आवासीय				व्यवसायिक		पी.एस.पी.		सामने का सेटबैक (मीटर में)
	मुखण्डीय विकास		बहुमंजिला भवन						
	भूतल कव रेज	एफ0 ए0 आर0	भूतल कव रेज	एफ0 ए0 आर0	भूतल कव रेज	एफ0 ए0 आर0	भूतल कव रेज	एफ0 ए0 आर0	
	(%)		(%)		(%)		(%)		
1	2	3	4	5	6	7	8	9	10
240 से कम	60	1.25	—	—	—	—	—	—	3.50
240 से अधिक 500 तक	50	1.25		—	—	—	—	—	3.50
500 से अधिक 1000 तक	40	1.50	35	1.5	60	1.5	40	1.25	6.0
1000 से अधिक 2000 तक			35	1.5	50	1.75	30	1.5	9.0
2000 से अधिक 4000 तक			35	1.5	50	2.0	30	1.5	9.0
4000 से अधिक 6000 तक			30	1.75	45	2.0	30	1.60	9.0
6000 से अधिक 10000 तक			30	1.8	40	2.0	30	1.70	12.0
10000 से अधिक			30	2.0	40	2.50	30	1.75	15.0

टीप :-

1. मिश्रित भूमि उपयोग में उपरोक्त तीनों उपयोग दिए गए मानक के अनुरूप मान्य होंगे।
2. मिश्रित भूमि उपयोग में बड़े भूखण्डों का विकास प्रोत्साहित किया जाएगा जिससे शहरी रूपांकन में एक रूपता बनी रहे।
3. मिश्रित भूमि उपयोग का क्षेत्र मानचित्र में दर्शाया गया है।
4. भवन की ऊंचाई उ.ग. भूमि विकास नियम 1984 के प्रावधानों के अनुसार मान्य की जाएगी।

### 5.17 मिश्रित भूमि उपयोग में स्वीकार्य नहीं होने वाली गतिविधियाँ :-

1. ऐसा कोई भी व्यवसाय, जिसमें दुर्गंधी पूर्ण, खतरनाक, ज्वलनशील, असंगत, प्रदूषणकारी किया सम्मिलित हो।
2. बिल्डिंग मटेरियल्स (सीमेंट, रेत, ईट, गिट्टी एवं लोहा)

# ***ANNEXURE 6***

## ***(Soil Testing Report)***

राष्ट्रीय प्रौद्योगिकी संस्थान रायपुर  
(राष्ट्रीय महत्व का संस्थान)

National Institute of Technology Raipur  
(An Institution of National Importance)

Testing and Consultancy Cell — Department of Civil Engineering

Ref No: 212 Civil Engineering/Consultancy/

Raipur, Dated: 12-10-2023

The Executive Engineer  
C.G. Housing Board Division  
Division, Rajnandgaon (C.G.)

Subject: Soil Bearing Test (Plate Load Test & Standard Penetration Test) for the proposed redevelopment near old camp office Rajnandgaon.

Reference Your Letter No. 1267/File No /Tech Branch/2023, Rajnandgaon Dated: 31/07/2023.

Proforma Invoice No. 49/T&C/Civil/2023 Dated 10.08.2023.

Tax Invoice No. NITRR/T&C/3588, Dated 11.08.2023.

**TEST REPORT** (Test No 354-2023)

**BEARING CAPACITY OF SOIL BY STANDARD PENETRATION TEST**

Location: Proposed redevelopment site Infront of Sub-Divisional office (E&M), PWD, Lakholi Road, near ex-CM Camp office Rajnandgaon (C.G.)

S.No.	PARTICULARS	Details
1	Date of Testing	11/10/2023
2	Soil Type at Test Level / Condition (Based on Physical observation)	Yellow / Moist
3	Depth of Test Level	4.0 m
4	Bulk Density of Soil	19.0 kN/m <sup>3</sup>
5	Factor of Safety (Water Table considered upto the foundation level)	3
6	Net Safe Bearing Capacity of Soil	219.0 kN/m <sup>2</sup>
7	Gross Safe Bearing Capacity of Soil	295.0 kN/m <sup>2</sup>

Special Remarks:

- Test Results are subjected to limitations of procedure as per IS-code.
- References IS 2131:1981 (Reaffirmed 2002), IS 6403:1981 (Reaffirmed 2002)

Test Done By:

(Dr. L.K. Yadu)  
Associate Professor  
Civil Engineering Dept.  
N.I.T. Raipur

(Dr. S. K. Chouksey)  
Assistant Professor  
Civil Engineering Dept.  
N.I.T. Raipur

Forwarded by:

(Dr. S. K. Chouksey)  
Head, Civil Engg Dept.  
N.I.T. Raipur

G.E. ROAD, RAIPUR (Chhattisgarh) 492 010

☎ : 0771-4270336; 2255920 (Dept); 2255261; URL: www.nitrr.ac.in

राष्ट्रीय प्रौद्योगिकी संस्थान रायपुर  
(राष्ट्रीय महत्व का संस्थान)



National Institute of Technology Raipur  
(An Institution of National Importance)

**Testing and Consultancy Cell — Department of Civil Engineering**

Ref No. 214 Civil Engineering/Consultancy/Raipur,

Dated: 19-10-2023

To,

The Executive Engineer,  
C.G. Housing Board Division,  
Division, Rajnandgaon (C.G.)

Subject: Soil Bearing Test (Plate Load Test and Standard Penetration Test) for the proposed redevelopment near Old camp office Rajnandgaon (C.G.)

Reference (i) Letter no. 1267/file no. Tech Branch/2023, Rajnandgaon Dated: 31.07.2023  
(ii) Proforma Invoice No. 49/T&C/Civil/2023 Dated: 10.08.2023  
(iii) Tax invoice no. NITRR/T&C/3588, Dated 11.08.2023

**TEST REPORT (Test No: 364-2023)**

**BEARING CAPACITY OF SOIL BY SPT (PIT No. 04)**

Location: Proposed location for redevelopment site, CM camp office Near CSEB office (LIG Buildings) Rajnandgaon (C.G.)

S. No.	PARTICULARS	Details
1	Date of Testing	16.10.2023
2	Depth of Test Pit	2.50 m
3	Bulk Density	20.0 kN/m <sup>3</sup>
4	Soil Type at Test Level / Condition (Based on Physical observation)	Black Soil / Moist
5	Factor of Safety	3
6	Net Safe Bearing Capacity of Soil (kN/m <sup>2</sup> )	107.0
7	Gross Safe Bearing Capacity of Soil (kN/m <sup>2</sup> )	157.0

Special Remark:

- Test Results are subjected to limitations of procedure as per IS-code
- Reference: IS 2131 - (1981), IS 6403 - (1981)

Test Done By:

(Dr. S. K. Chouksey)  
Assistant Professor  
Civil Engineering Dept.  
N.I.T. Raipur

(Dr. V. K. Yadav)  
Associate Professor  
Civil Engineering  
N.I.T. Raipur



Forwarded by:

(Dr. V. K. Yadav)  
Head, Civil Engg Dept.  
N.I.T. Raipur

G.E. ROAD, RAIPUR (Chhattisgarh) 492 010

☎ : 0771-4270336; 2255920 (Dept); ☎ : 2255261; URL: www.nitrr.ac.in

राष्ट्रीय प्रौद्योगिकी संस्थान रायपुर  
(राष्ट्रीय महत्त्व का संस्थान)

National Institute of Technology Raipur  
(An Institution of National Importance)

**Testing and Consultancy Cell — Department of Civil Engineering**

Ref No **201** /Civil Engineering/Consultancy/  
To

Raipur, Dated: **16-10-2023**.

The Executive Engineer  
C.G. Housing Board Division  
Division, Rajnandgaon (C.G.)

**Subject: Soil Bearing Test (Plate Load Test & Standard Penetration Test) for the proposed redevelopment near old camp office Rajnandgaon.**

Reference Your Letter No. 1267/File No./Tech Branch/2023, Rajnandgaon Dated: 31/07/2023.

Proforma Invoice No. 49/T&C/Civil/2023 Dated 10.08.2023.

Tax invoice No. NITRR/T&C/3588, Dated 11.08.2023.

**TEST REPORT (Test No 364-2023)**

**BEARING CAPACITY OF SOIL BY PLATE LOAD TEST**

Location: Proposed redevelopment site near ex-CM Camp office Rajnandgaon (C.G.)

S.No.	PARTICULARS	Details
1	Date of Testing	11/10/2023
2	Depth of Test Pit	4.0 m
3	Size of Plate used	0.30 m X 0.30 m
4	Bulk Density (Considered)	19.0 kN/m <sup>3</sup>
5	Soil Type at Test Level / Condition (Based on Physical observation)	Yellow Soil / Moist
6	Factor of Safety (Water table considered at the level of test pit)	3
7	Net Safe Bearing Capacity of Soil (kN/m <sup>2</sup> )	148.0
8	Gross Safe Bearing Capacity of Soil (kN/m <sup>2</sup> )	224.0

Special Remark.

- (i) Test Results are subjected to limitations of procedure as per IS-code  
(ii) Reference: IS 1888:1982.

Test Done By:

(Dr. L. K. Yadu)  
Associate Professor  
Civil Engineering Dept

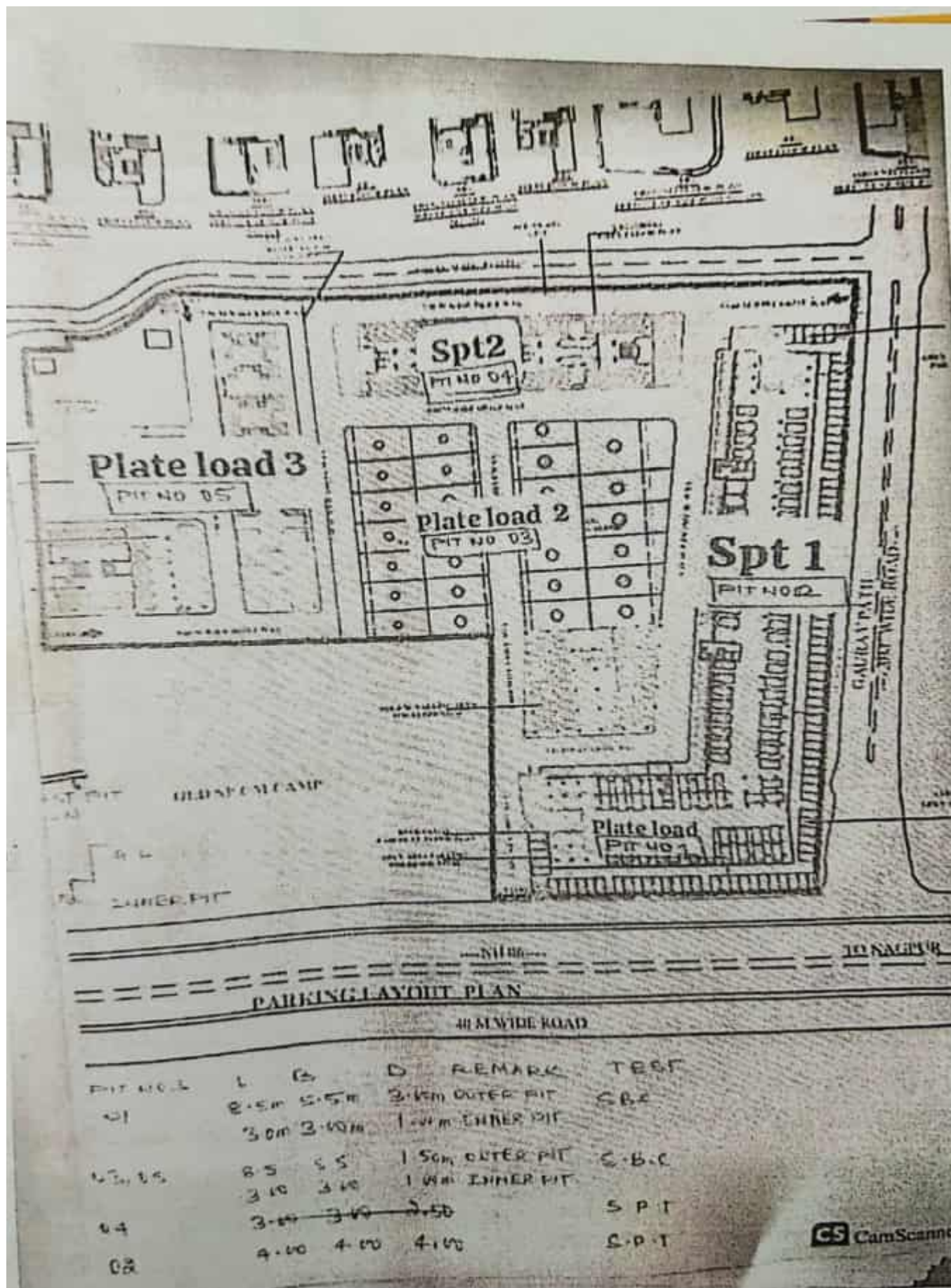
(Dr. Sandeep Chouksey)  
Associate Professor  
Civil Engineering Dept

Forwarded by:

Head, Civil Engg Dept.  
N.I.T. Raipur

G.E. ROAD, RAIPUR (Chhattisgarh) - 492 010

☎ : 0771-4270336; 2255920 (Dept); ☎ : 2255261; URL: www.nitrr.ac.in



राष्ट्रीय प्रौद्योगिकी संस्थान रायपुर  
(राष्ट्रीय महत्व का संस्थान)

National Institute of Technology Raipur  
(An Institution of National Importance)

## Testing and Consultancy Cell — Department of Civil Engineering

Ref. No. **205** Civil Engineering Consultancy Raipur.

Dated **19.10.2023**

To  
Executive Engineer,  
C.G. Housing Board Division,  
Division: Rajnandgaon (C.G.)

Subject: Soil Bearing Test (Plate Load Test and Standard Penetration Test) for the proposed redevelopment near Old camp office Rajnandgaon (C.G.)  
Reference: (i) Letter no. 1267 file no. /Tech Branch/2023, Rajnandgaon Dated: 31.07.2023  
(ii) Proforma Invoice No. 49/T&C/Civil 2023 Dated: 10.08.2023  
(iii) Tax invoice no. NITRR/T&C/3588 Dated: 11.08.2023

### TEST REPORT (Test No. 364-2023)

#### BEARING CAPACITY OF SOIL BY PLATE LOAD TEST (PIT No. 05)

Location: Redevelopment of backside of irrigation office near BJP Office Rajnandgaon (C.G.)

S. No.	PARTICULARS	Details
1	Date of Testing	16.10.2023
2	Depth of Test Pit	2.5 m
3	Size of Plate used	0.30 m X 0.30 m
4	Bulk Density	20.0 kN/m <sup>3</sup>
5	Soil Type at Test Level Condition (Based on Physical observation)	Black soil/Dry
6	Factor of Safety (Water table considered at the level of test pit)	3
7	Net Safe Bearing Capacity of Soil (kN/m <sup>2</sup> )	155.0
8	Gross Safe Bearing Capacity of Soil (kN/m <sup>2</sup> )	205.0

#### Special Remark:

- Test Results are subjected to limitations of procedure as per IS-code.
- Reference: IS 1888:1982

#### Test Done By:

(Dr. S. K. Choudhary)  
Assistant Professor  
Civil Engineering Dept.  
N.I.T. Raipur

(Dr. Laxmikanth Yadav)  
Associate Professor  
Civil Engineering Dept.  
N.I.T. Raipur



#### Forwarded by:

(Signature)  
19.10.23  
Head, Civil Engg Dept.  
N.I.T. Raipur

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