

# **GOVERNMENT OF GUJARAT**

## **ROADS & BUILDING DEPARTMENT**



### **PRICE - BID**

**Name of Work:** Construction of Various Category Quarters in Ahmedabad City (Addition, Alteration, Upgradation and Modernization of Campus, Landscaping and Beautification of Gardens and other Beautification work in Campus of Govt. Bunglow No. 4 to 30 at Dafnala, Shahibaug, Ahmedabad) (3<sup>rd</sup> attempt)



# **GOVERNMENT OF GUJARAT**

## **ROADS AND BUILDING DEPARTMENT AHMEDABAD CITY CIRCLE, AHMEDABAD**

**Name of Work:** Construction of Various Category Quarters in Ahmedabad City (Addition, Alteration, Upgradation and Modernization of Campus, Landscapping and Beautification of Gardens and other Beautification work in Campus of Govt. Bungalow No. 4 to 30 at Dafnala, Shahibaug, Ahmedabad) (2<sup>nd</sup> attempt)

### **VOLUME 3 –SCHEDULE - B**

**Civil Work, Garden Work, Irrigation Work & Electrical  
Work**

**Volume 3: Billing of Quantities**

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<b>TABLE OF CONTENTS</b>		
BILL OF QUANTITIES		
A.	PREAMBLE	5
B.	ABBREVIATIONS	7
C.	WORK ITEMS	8
BILLING OF QUANTITIES – PART : 1		
1.	CIVIL WORK	9
2.	GARDEN WORK	31
3.	IRRIGATION WORK	37
4.	ELECTRICAL WORK	42
BILLING OF QUANTITIES PART : 2		
1.	CREDIT ITEM	61

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## **BILL OF QUANTITIES**

### **A: PREAMBLE**

1. The Bill of Quantities shall be read in conjunction with the Instructions to Bidders, General and Special Conditions of Contract, Contract Data, Technical Specifications, and Drawings.
2. The quantities given in the Bill of Quantities are estimated and provisional, and are given to provide a common basis for bidding. The basis of payment will be the actual quantities of work ordered and carried out, as measured by the Contractor and verified by the Engineer and valued at the rates and prices bid in the priced Bill of Quantities (above of below tender rate), where applicable, and otherwise at such rates and prices as the Engineer may fix within the terms of the Contract. The % above and below shall be applicable to all items and their rates
3. The rates and prices bid in the priced Bill of Quantities shall, except insofar as it is otherwise provided under the Contract, include all Constructional Plant, labour, supervision, materials, erection, maintenance, insurance, profit, taxes (including GST etc.) and duties, together with all general risks, liabilities, and obligations set out or implied in the Contract.
4. % above or below shall be entered against the priced Bill of Quantities, whether quantities are stated or not.
5. The whole cost of complying with the provisions of the Contract is considered to be included in the Items provided in the priced Bill of Quantities, and where no Items are provided, the cost shall be deemed to be distributed among the rates and prices entered for the related Items of Work.
6. General directions and descriptions of work and materials are not necessarily repeated nor summarized in the Bill of Quantities. References to the relevant sections of the contract documentation shall be made before entering prices against each item in the priced Bill of Quantities.

### **NOTES:**

1. **All works shall be carried out as per BOQ and other specifications as directed.**
2. **Rates quotes include clearance of site (prior commencement of work and at its close) in all respects and hold good for work under all conditions, site, moisture, weather etc.**

3. Contractor shall state even "NIL" percentage, if no deduction is offered.
4. In R.C.C. Item where there is a change in Grade of Mix or change as per actual mix design the difference of cement consumption shall be deduct from rate of original item at the rate of star rate mentioned in this tender.
5. One Percent of Amount of work done shall be recovered from the contractor's payment as "Labour cess".
6. We hereby declare that, I/We have visited the site and fully acquainted myself/ourselves with the local situation regarding materials and other factors pertaining to the works before submitting this tender.
7. I/We hereby declare that I/we have carefully studied conditions of contract, specifications & other tender documents of this work and agree to execute the same accordingly.

### B: ABBREVIATIONS

Abbreviation	For
Rs / INR	Indian Rupees
LS or SUM	Lump Sum
Nr or No.	Number
Lm or m	Linear metre
KM or km	Kilometre
Hct or ha	Hectare
m <sup>2</sup> or sqm-smt	Square metre
m <sup>3</sup> or Cum-cmt	Cubic metre
KG or kg	Kilogram
T or MT	Tonne or Metric Tonne
HP	Horse Power
PS	Provisional Sum
IRC	Indian Roads Congress
MORTH Specification	Specifications for Road and Bridge Works (5th revision) issued by the Ministry of Roads Transport & Highways, Government of India
BIS	Bureau of India Standards
Prov.	Provisional
Eqpt. Hrs	Equipment hours
P.O.L.	Petroleum, Oil and Lubricants
Veh. Day	Vehicle Day
Cu cm – cucm	Cubic Centimetres
Mtr	Metre

**C: WORK ITEMS**

1. The Bill of Quantities contains the following part Bills \_\_\_\_\_ Tender no. \_\_\_\_\_

Construction of Various Category Quarters in Ahmedabad City (Addition, Alteration, Upgradation and Modernization of Campus, Landscapping and Beautification of Gardens and other Beautification work in Campus of Govt. Bungalow No. 4 to 30 at Dafnala, Shahibaug, Ahmedabad). (2<sup>nd</sup> attempt)

2. Bidders shall price the Bill of Quantities in local currency only.

Bill no.	Work	Item No.	Total Amounts
	<b>PART : A</b>		
1	Civil Work	1 to 56	₹ 5,30,00,908.44
2	Garden & Irrigation Work	57 to 114	₹ 2,45,22,110.26
3	Electrical Work	115 to 170	₹ 1,48,24,464.82
<b>Total Civil + Garden &amp; Irrigation + Electrical (1+2+3)</b>			<b>₹ 9,23,47,483.52</b>
	<b>PART : B</b>		
4	CREDIT ITEMS	171 to 179	₹ 2,37,334.97
	<b>Total ( A - B)</b>	<b>TENDER AMOUNT</b>	<b>₹ 9,21,10,148.55</b>
<b>In Words</b>	<b>Nine crore twenty one lakh ten thousand one hundred forty eight rupees and fifty five paise only</b>		

**Deputy Executive Engineer  
Shahibaug (R&B) Sub Division  
Ahmedabad**

**Executive Engineer  
Ahmedabad City (R&B) Division  
Ahmedabad**

**BILLING OF QUANTITIES – PART: 1**

<b>Name of Project :</b>	Construction of Various Category Quarters in Ahmedabad City (Addition, Alteration, Upgradation and Modernization of Campus, Landscapping and Beautification of Gardens and other Beautification work in Campus of Govt. Bungalow No. 4 to 30 at Dafnala, Shahibaug, Ahmedabad) (2 <sup>nd</sup> attempt)
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**Schedule-B****MEMORANDUM SHOWING THE ITEMS OF WORKS TO BE CARRIED OUT**

Item No	Quantities Estimated but may be more or less	Items of works	Estimated rates		Unit	Total amount according to estimated quantities
			In Figure	In words		
		<b>Civil Work</b>				
1	13119.00	Dismantling steel work including distempering and stacking the materials with all lead and lift.	3.67	Three Rupees And Sixty Seven Paise Only	Kg	48146.73
2	25.00	Demolition of Brick work and stone masonry including stacking of serviceable materials and disposal of unserviceable materials with all lead and lift. (ii) In Cement Mortar.	550.40	Five Hundred Fifty Rupees And Forty Paise Only	Cu.M	13760
3	760.00	Removing and scraping of old deteriorated plaster of any thickness from wall / R.C.C member including stacking of serviceable material and disposal of unserviceable from site of work with all lead and lift	19.57	Nineteen Rupees And Fifty Seven Paise Only	SMT	14873.2
4	580.00	Excavation for foundation upto 1.5m depth including sorting out and stacking of useful materials and disposing off the excavated stuff upto 50 Meter lead. (A) Loose or soft soil.	117.08	One Hundred Seventeen Rupees And Eight Paise Only	Cu.M	67906.4
5	35.00	Excavation for foundation for depth from 1.5 m to 3.0 m including sorting out and stacking of useful materials and disposing off the excavated stuff upto 50 Meter lead. (A) Loose or soft soil	129.81	One Hundred Twenty Nine Rupees And Eighty One Paise Only	Cu.M	4543.35
6	615.00	Filling available excavated earth (excluding rock) in trenches. plinth, sides of foundations etc. in layers not exceeding 20 cm. in depth consolidating each disposed layer by ramming and watering.	130.39	One Hundred Thirty Rupees And Thirty Nine Paise Only	Cu.M	80189.85



7	5.00	Filling in plinth with sand under floors including watering ramming, consolidating and dressing complete	460.19	Four Hundred Sixty Rupees And Nineteen Paise Only	Cu.M	2300.95
8	5.00	Filling in foundation and plinth with murrum or selected soil in layers of 20cm. thickness including watering, ramming and consolidating etc. complete	289.06	Two Hundred Eighty Nine Rupees And Six Paise Only	Cu.M	1445.3
9	23.00	Plinth Treatment: Carrying out plinth treatment to post construction / existing structure by spraying chemical solution for termite control treatment including labour and material consistment with I.S.I specification. Using Chlordene and Chiorpurfiles 20 EC. As Per 6131 _paret-II Consentration Weight one percent is recommended i.e one litre 20 EC chemical emulsion with 19 liter give 1 %concentration inclusive of one litre chemical emulsion appication at the rate of 5 Litre chemical / Sqm of surface is recommended as per I.S	105.95	One Hundred Five Rupees And Ninety Five Paise Only	Sq.M	2436.85
10	279.00	PCC (M-15) : Providing and laying controlled cement concrete Grade M.150 With complete including, necessary shuttring, laying vibrating and curing complete (A) Foundations, footings, Base of columns and Mass concrete	4182.34	Four Thousand One Hundred Eighty Two Rupees And Thirty Four Paise Only	Cu.M	1166872.86
11	47.00	Foundation (M-25): Providing and laying controlled cement concrete Grade M.250 With complete including, necessary shuttring, laying vibrating and curing complete and excluding reinforcement for reinforced concrete work in (A) Foundations, footings, Base of columns and Mass concrete.	4569.63	Four Thousand Five Hundred Sixty Nine Rupees And Sixty Three Paise Only	Cu.M	214772.61
12	7.00	Plinth Beam /GroundBeam (M-25): Providing and laying controlled cement concrete Grade M.250 With complete including, necessary shuttring, laying vibrating and curing	6165.82	Six Thousand One Hundred Sixty Five Rupees And Eighty Two	Cu.M	43160.74

		complete and excluding reinforcement for reinforced concrete work in (A) Slabs, landing, shelves, Balconies, Lintels, Beams,Girders and Cantilever upto floor two level.		Paise Only		
13	23.00	Column (M-25): Providing and laying controlled cement concrete Grade M.250 With complete including, necessary shuttring, laying vibrating and curing complete and excluding reinforcement for reinforced concrete work in (A) Columns, Pillars posts and struts, upto floor two level.	7660.41	Seven Thousand Six Hundred Sixty Rupees And Forty One Paise Only	Cu.M	176189.43
14	4.00	Grade Slab (M-25): Providing and laying controlled cement concrete Grade M.250 With complete including, necessary shuttring, laying vibrating and curing complete and excluding reinforcement for reinforced concrete work in (A) Slabs, landing, shelves, Balconies, Lintels, Beams,Girders and Cantilever upto floor two level.	4648.43	Four Thousand Six Hundred Forty Eight Rupees And Forty Three Paise Only	Cu.M	18593.72
15	4.00	Slab (M-25): Providing and laying controlled cement concrete Grade M.250 With complete including, necessary shuttring, laying vibrating and curing complete and excluding reinforcement for reinforced concrete work in (A) Slabs, landing, shelves, Balconies, Lintels, Beams,Girders and Cantilever upto floor two level.	6635.73	Six Thousand Six Hundred Thirty Five Rupees And Seventy Three Paise Only	Cu.M	26542.92
16	7.00	Floor Beams (M-25): Providing and laying controlled cement concrete Grade M.250 With complete including, necessary shuttring, laying vibrating and curing complete and excluding reinforcement for reinforced concrete work in (A) Slabs, landing, shelves, Balconies, Lintels, Beams,Girders and Cantilever upto floor two level.	6287.66	Six Thousand Two Hundred Eighty Seven Rupees And Sixty Six Paise Only	Cu.M	44013.62
17	2.00	Lintel/Coping (M-25): Providing and laying controlled cement concrete Grade M.250 With complete including, necessary shuttring, laying vibrating and curing complete and excluding reinforcement for	7621.97	Seven Thousand Six Hundred Twenty One Rupees And Ninety Seven	Cu.M	15243.94

		reinforced concrete work in (A) Slabs, landing, shelves, Balconies, Lintels, Beams, Girders and Cantilever upto floor two level.		Paise Only		
18	5445.00	Tre-mix : Box cutting the road 300mm surface to proper slope and camber for making a base with Providing, laying, spreading and compacting Sand filling 100 mm thick including spreading in uniform thickness, hand packing, rolling with vibratory roller 8-10 tones to proper grade and camber, watering and compacting to the required density. below 150mm thick 1:2:4 (1- Cement : 2- Coarse sand : 4- graded stone aggregates 20 mm nominal size) cement concrete and 200 MM Thick Ready Mixed M-350 grade concrete for reinforced cement concrete work, using cement content as per approved Design Mix manufactured in fully automatic batching plant and transported to site of work in transit mixer for a lead up to 10 kms having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work including pumping of R.M.C. from transit mixer to site of laying, including the cost of centering shuttering finishing and cost of admixtures in recommended proportions as per IS: 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge. Without Fly Ash including (10 Dia 200c/c) FE 500D reinforcement with bending, binding and placing in position complete.	2415.51	Two Thousand Four Hundred Fifteen Rupees And Fifty One Paise Only	SMT	13152451.95
19	12830.00	TMT Bar (FE 500 D) : Providing TMT Bar FE 500 D reinforcement for R.C.C. work including bending, binding and placing in position complete up to floor two level	76.21	Seventy Six Rupees And Twenty One Paise Only	Kg	977774.3

20	27.00	Brickwork: Brick work using common burnt clay building bricks having crushing strength not less than 35kg. / Sq.Cm. in foundation and plinth and in Superstructure upto floor two level in Cement Mortar 1:5. (1- Cement : 5- fine sand) (B) Conventional	4326.75	Four Thousand Three Hundred Twenty Six Rupees And Seventy Five Paise Only	Cu.M	116822.25
21	30.00	Half Brick Masonry Work: (i) Half brick masonry in common burnt clay building bricks having crushing strength not less than 35 Kg/Sq.Cm. in Cement mortar 1:4 (1- Cement : 4- coarse sand ) in foundation and plinth & in superstructure upto floor two level. (B)Conventional	653.17	Six Hundred Fifty Three Rupees And Seventeen Paise Only	SMT	19595.1
22	167.00	Fiberglass Mesh : Providing and Fixing Fiberglass Mesh with alkali resistant coating having mass per unit area 145 gram/M2, Mesh size 3.9 x 4.0 mm +_ 10% with all labour and accessories of fixing etc. complete as per instruction given by engineer in charge/Architect.	80.80	Eighty Rupees And Eighty Paise Only	SMT	13493.6
23	60.00	Providing 15mm thick waterproofing cement plaster in single coat on Rough And Similar smooth Finished Plaster side of single or half brick walls for interior and Exterior plastering upto floor two level and finished even and smooth in (ii) Cement mortar 1:3 (1-cement :3- sand) .	233.16	Two Hundred Thirty Three Rupees And Sixteen Paise Only	SMT	13989.6
24	1109.00	20mm thick waterproofing cement plaster Similar smooth Finished & sand faced cement plaster on walls up to height 10 metres above ground level consisting of 12 mm thick backing coat of C.M.1:3 (1-cement : 3 sand) and 8 mm thick finishing coat of C.M. 1:1 (1-cement : 1-sand) etc. complete	360.20	Three Hundred Sixty Rupees And Twenty Paise Only	SMT	399461.8
25	5647.00	Putty & Primer : Applying two coats of putty & two coats of primer of approved brand and manufacture on new wall surface to give an even shade including thoroughly brushing the surface free from mortar dropping and other foreign matter	40.59	Forty Rupees And Fifty Nine Paise Only	SMT	229211.73

		and sand papered smooth.				
26	5647.00	Apex Ultima weatherproof exterior paint: Providing and applying Apex Ultima weatherproof exterior emulsion paint on external wall surfaces in two coats, over properly prepared surfaces including thorough cleaning, brushing, and removal of all dust, dirt, grease, and loose powdered materials, to achieve a uniform shade and durable finish, complete as per manufacturer's specifications and directions.	313.61	Three Hundred Thirteen Rupees And Sixty One Paise Only	SMT	1770955.67
27	1140.00	Providing and applying Luxture Texture finish on wall surfaces using approved textured materials such as acrylic-based compounds or equivalent, including surface preparation, base coat, texture application with required tools and techniques, scaffoldings & support system and final finish as per approved sample. Work to be completed as per manufacturer's specifications and direction of Engineer-in-Charge.	1874.66	One Thousand Eight Hundred Seventy Four Rupees And Sixty Six Paise Only	SMT	2137112.4
28	30.00	Waterproofing treatment on Terrace: Providing and applying Fibre reinforced Elastomeric liquid Water proofing membrane with resilient Acrylic polymers having Sun Reflectivity Index (SRI) of 105 on Top of concrete roof in top of concrete in three coats @ 10.76 litre/10 sq.m. One coat of self-priming of Elastomeric water proofing liquid (delution with water in the ratio of 3:1) and two coats of undiluted elastomeric waterproofing liquid (dry film thickness of complete application/system not less than 500 microns). The operation shall be carried out after scraping and properly cleaning the surface to remove loose particles with wire brushes , complete in all respect as	481.97	Four Hundred Eighty One Rupees And Ninety Seven Paise Only	SMT	14459.1

		per the direction of Engineer-in-charge.				
29	30.00	China Mosaic Flooring : Providing and laying broken chine mosaic flooring for terrace using 12 mm to 20 mm broken pieces of glazed tiles to be laid over cement mortar 1:3 top lain or slope and to be tempered to bring mortar creme out upto surface using white cement including rounding off junctions and extending them up to 15 cm along the wall, clearing with water and oxalic acid etc. as directed.	747.29	Seven Hundred Forty Seven Rupees And Twenty Nine Paise Only	Sq.M	22418.7
30	417.00	Providing and fixing PUF Insulated continuous sandwich panels for roofs of total thickness not less than 30 mm made out from continue line method.Panel shall have 0.5 mm thick pre coated GI sheet on both side of Polyurethane foam with external face being corrugated in shape for GI and PU foam both material.The crest height of the panel shall be of 35mm minimum wiht 250mm c/c pitch. The Precoated sheet shall be of minimum 240 mpa steel grade confirming to IS 14246:1995 and shall have zinc coating of 120 gsm as per IS:277 , 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 micron.The PPGI Sheet shall have protective guard film of minimum 25 microns to avoid scratches wihile trasportation.The roof panels are laid over a frame work of trusses, columns and purlins fixed using 90mm self drilling bolt with rubber washer including all types of flashings. PU Foam must be self-extinguishing, fire retardant type	3117.79	Three Thousand One Hundred Seventeen Rupees And Seventy Nine Paise Only	Sq.M	1300118.43

		having minimum density of 40 Kg/Cu.mt.( +, - 2 Kgs) including 0.25mm craft paper edging, self tapping screws of required length and nos.etc complete as per structural design and direction of Engineer-in-charge.				
31	12201.00	MS work : Providing, fabricating, assembling, hoisting/ erecting and fixing in position at all heights/ all levels/ all floors/ all shapes & sizes with all leads & lifts using MS Rolled Steel Sections, Hollow sections, Tubular Sections, MS Plates, Chequered Plates, MS Pipes, Perforated Sheet, Flats, Bright Bars, Angles, MS Sheet, Girder, Beam, cattle trap. deep threaded MS bolts, threaded J bolts, insert plate, support plate etc as per drawing. all confirming to latest relevant IS codes for the work of steel structures like staircases, railings, handrail, jali, gates, grills, bracings, platforms, brackets, monkey ladder, cattle trap, windows, pipe rack, rungs, false ceiling frame work, Roof canopy, fencing posts, M.S. Screen & fencing jali frame work etc. including straightening, cutting, bending, bolting and welding the members all as per structural drawings and as per detailed specifications (for materials & workmanship) including necessary scaffolding/ staging, applying a priming coat of red lead paint And Epoxy coated section etc. complete in the situations described hereinafter and comprising of : 1) Profile Cutting	93.22	Ninety Three Rupees And Twenty Two Paise Only	Kg	1137377.22

		of components to required length/ width and shape/ profile; 2) Smooth grinding/ machining of edges/ faces/ all welding joints;				
32	417.00	Painting two coats (excluding priming coat) on new steel and other metal surface with enamel paint, brushing, interior to give an even shade including cleaning the surface an even shade including clean the surface of all dirt, dust and other foreign matter.	87.81	Eighty Seven Rupees And Eighty One Paise Only	Sq.M	36616.77
33	1920.00	CONCRETE KERBING (half better): Providing and fixing pre-cast concrete kerbstone of gray cement based vacuumed wet press concrete block of precision finish, as per approved design and including excavation for fixing in proper line and level, filling the joint with C:M 1:3 (1 cement: 3 fine sand) etc complete. Selection as per the architect and EIC. (a) VYARA_HB-B_half better Vacuumed wet press or equivalent .Placement is as per drawing for the location, shape and design and pattern. Supply of K-HB GREY SL VWP 600*450*150MM with minimum average 2.5MPa bending strength at 28 days.	1122.01	One Thousand One Hundred Twenty Two Rupees And One Paise Only	RMT	2154259.2
34	245.00	CONCRETE KERBING (radius): Providing and fixing pre-cast concrete kerbstone of gray cement based Vacuumed wet press concrete block of precision finish of size range as per the selection from the range given to accommodate , as per approved design and including excavation for fixing in proper line and level, filling	878.09	Eight Hundred Seventy Eight Rupees And Nine Paise Only	NO'S	215132.05



		the joint with C:M 1:3 (1cement: 3fine sand) etc complete. Selection of thickness from the range given is as per the architect and EIC. Placement is as per drawing for the location, shape and design and pattern. Supply of K-HB RA 3, 4.5, 6 (EX) GREY or red or Vyara equivalent. VWP 780*300*150MM				
35	1825.00	DRAIN CHANNEL WITH COVER : U shape Drain channel size - 300*300 mm with High-Performance Self-Compacting Concrete (SCC) of minimum strength / M-50 cube strength with drain testing for load capacity of Min 200 kN and Heavy duty Lid (Cover) For 300 mm similier Grade of concrete as above with Hole Design as per architect's selection and as per direction of Engineer-in-charge. Make as per tender or Equivalent.	4332.40	Four Thousand Three Hundred Thirty Two Rupees And Forty Paise Only	RMT	7906630
36	30.00	Providing laying (to level or slopes) and jointing reinforced concrete Light duty non-pressure pipes I.S. class NP2 of the following internal diameter the collar sand but tends prepared for collar joints including testing of joints complete.(E) 450mm	1060.59	One Thousand Sixty Rupees And Fifty Nine Paise Only	RMT	31817.7
37	12.00	Constructing Brickmasonry road gully chamber 500mmx 450mmx 600mm including 500mmx 450mm C.I. horizontal grating wih frame complete.	2017.19	Two Thousand Seventeen Rupees And Nineteen Paise Only	NO'S	24206.28
38	120.00	Paver Block : Providing and fixing pre-cast Rubber Dye / steel Dye inter locking concrete block 60mm thick with grade of concrete M300 pnumatic compressed/ vibrated mechanically and as per approved design Confirming to IS 15658 : 2006 including 35mm Sand layer for levelling and filling the joint with sand in proper line and level as per guidlines of IRC : SP 63-2018 etc. Complete	686.90	Six Hundred Eighty Six Rupees And Ninety Paise Only	SMT	82428

39	1271.00	<p>FLAG STONE FLOORING : Providing and laying flag stone flooring over 25-35mm thick base of cement mortar 1:5 (1-Cement : 5-coarse sand) including pointing with cement mortar 1:2 (1-cement : 2-stone dust) etc. complete.</p> <p>(a) VYARA_Flagstone shot blasted &amp; coated finish (Rev 02) or equivalent Size, design, laying pattern and colour as per architect selection. .</p> <p>(b) Finish : Premier shield protection (coated)</p> <p>(C) Size :DL WP 300*450*60MM/ 300*600*60MM/ 300*300*60MM in SBPS finish with minimum average 3.5MPa bending strength at 28 days.</p>	1547.12	One Thousand Five Hundred Forty Seven Rupees And Twelve Paise Only	SMT	1966389.52
40	545.00	<p>COBBLE STONE FLOORING : Providing and laying cobble stone flooring over 25-35mm thick base of cement mortar 1:5 (1-Cement : 5-coarse sand) including pointing with cement mortar 1:2 (1-cement : 2-stone dust) etc. complete Size, design, laying pattern and colour as per architect selection.</p> <p>(a) VYARA_Cobble square 60mm shot blasted &amp; coated finish (Rev 02) or equivalent.</p> <p>(b) Finish : Premier shield prtection (coated)</p> <p>(c) Size : Supply of COBBLE SQ.-R RED DL CP , vyara or equivalent 60MM in SBPS finish with minimum average 200 KG/cm<sup>2</sup> compressive strength at 28 days.</p>	1490.20	One Thousand Four Hundred Ninety Rupees And Twenty Paise Only	SMT	812159
41	500.00	<p>GRANITE STONE FLOORING (Canvas finish) : Providing and laying rough stone flooring over 75mm thick or Require for leveling base of cement mortar 1:3 (1-Cement : 3-coarse sand) laid and jointed with grey cement slurry including cutting, dressing, leveling, jointing, pointing, curing, finishing, rubbing and polishing complete including Labor Charges Quarter round edge for granite.</p> <p>(a) Indian granite stone, as per</p>	3871.55	Three Thousand Eight Hundred Seventy One Rupees And Fifty Five Paise Only	SMT	1935775

		<p>selection</p> <p>(b) thickness: 18mm,</p> <p>(c) Finish:Lepatora</p> <p>(d) The rate of the stone should NO'St be less than Rs. 125/sq.ft. Size, design, laying pattern and colour as per architect selection.</p>				
42	270.00	<p>GRANITE STONE FLOORING (Mirror Finish) : Providing and laying rough stone flooring over 75mm thick or Require for leveling base of cement mortar 1:3 (1-Cement : 3-coarse sand) laid and jointed with grey cement slurry including cutting, dressing, leveling, jointing, pointing, curing, finishing, rubbing and polishing complete including Labor Charges Quarter round edge for granite Size, design, laying pattern and colour as per architect selection..</p> <p>(a) Indian granite stone, as per selection</p> <p>(b) thickness:18mm,</p> <p>(c) Finish:Mirror polish</p> <p>(d) The rate of the stone should NO'St be less than Rs. 125/sq.ft.</p>	3543.48	Three Thousand Five Hundred Forty Three Rupees And Forty Eight Paise Only	SMT	956739.6
43	540.00	<p>GRANITE STONE FLOORING (leather,river ) : Providing and laying rough stone flooring over 75mm thick or Require for leveling base of cement mortar 1:3 (1-Cement : 4-coarse sand) laid and jointed with grey cement slurry including cutting, dressing, leveling, jointing, pointing, curing, finishing, rubbing and polishing complete including Labor Charges Quarter round edge for granite.</p> <p>(a) Indian granite stone, as per selection</p> <p>(b) thickness:18mm,</p> <p>(c) Finish:leather, river or mirror as per selection</p> <p>(d) The rate of the stone should NO'St be less than Rs. 125/sq.ft. Size,</p>	3637.21	Three Thousand Six Hundred Thirty Seven Rupees And Twenty One Paise Only	SMT	1964093.4

		design, laying pattern and colour as per architect selection.				
44	20.00	<p>EXPOSE BENCH : Fabrication and manufacturing of solid precast concrete bench or other elements with provisions of shear keys, connecting loops, dowel tubes and proper lifting accessories for bench or other elements, of various thickness, shape and size of different concrete grades manufactured in controlled factory environment with approved methodology including moulds (Pallet system, Tilts form, table moulds, battery moulds, vertical moulds, beam moulds, column moulds, staircase moulds, Facade mould, etc.), mixing, transporting and placing of concrete, vibrating, curing, finishing, making necessary cutout/ holes of required sizes for services, yard handling &amp; stacking all complete as per IS 11447:1985 and as per approved shop drawings and design mix as per the direction of Engineer-in-Charge (Cost of reinforcement, Mechanical, Electrical and Plumbing inserts will be paid separately). Concrete grade M-35 (Cement content 370 KGs) size of bench should be consider 1800x500x450mm.Design of the Bench as per the drawing.</p>	63882.50	Sixty Three Thousand Eight Hundred Eighty Two Rupees And Fifty Paise Only	NO'S	1277650

45	9.00	Signage :Manufacturing, supply, arrangement and keeping in good condition until project completion SS/Wooden/MDF signage using SS 304 grade/Plywood/MDF material brush finish 1.5mm thick sheet with letter, numbers, graphic, symbol etc made by acid etching process with duco paint/ powder coating as per drawings and instruction of the architect. All required CNC cutting/ laser cutting shall be carried out as per drawing. The plate shall be fixed on brick/ RCC wall/ ply/ cement board/ furniture/ door with the necessary fixing hardware like SS stud, fastner, self adhesive double side tape etc. complete for all floors and all height. The rate shall be inclusive of all material, laour, hardware scaffolding etc. All product Make approved as per tender and architect selection or equivalent.	16261.00	Sixteen Thousand Two Hundred Sixty One Rupees Only	SMT	146349
46	65.00	ENTRY SIGNAGE : Providing and fixing of Stainless Steel letters (Grade 304), as per approved architectural drawings and Engineer-in-Charge's directions. The work includes: a. Material: Fabricated letters from SS Grade 304 sheet, thickness:1.5 mm, with a brushed/polished/golden PVD coated finish. b. Fabrication: Letters to be 150 mm minimum height for main text, with raising/depth:25 mm. c. Fixing: Securely fixed to the existing surface using concealed stainless steel studs and a suitable sealant/epoxy adhesive, ensuring no fixings are visible from the front. d. Inclusions: All necessary shop drawings, cutting, bending, transportation to site, installation, testing.	2032.63	Two Thousand Thirty Two Rupees And Sixty Three Paise Only	NO'S	132120.95
47	2.00	MAP SIGNAGE : with pole - SS Plate Size : 2' x 3' or equivalent - Grade 304, Brush Finish, 2mm Thickness with Smoothen Corner edges, Acid	20616.63	Twenty Thousand Six Hundred Sixteen	NO'S	41233.26

		etching with duco colour, Logo cutting in waterjet CNC machine, Supported at 45 degree Pole 2' long Double pole, 50mm square MS pipe with Zinc coating & Paint, 1.5' deep Foundation with concrete work & Transportation.		Rupees And Sixty Three Paise Only		
48	56.00	SCULPTURE & FOUNTAIN & DECORATIVE ITEMS : Indian natural stone sculpture in abstract form, made of Indian sandstone, marble or granite using various tool and tackle to give aesthetically appealing surface textures, polishing, form and effects as per design and specifications given by the architect or EIC. The item to include all materials, workmanship, transportation & handling, lifting and placing on site along with any anchorage, supports as required.(Out to out volumetric dimensions to be considered)	40652.50	Forty Thousand Six Hundred Fifty Two Rupees And Fifty Paise Only	Cu.M	2276540
49	293.00	GRC CLADDING : Providing & fixing architectural moldings profiles and other decorative elements made out of GRC (Glass Fibre reinforced Cement) in required shape, size & thickness all as per manufacturers specifications, such as all decorative articles should be made by using high power spray machine, using AR Glass fiber with minimum ZrO2 16% including necessary scaffoldings for all heights, as per approved drawings and reference images. GRC elements thickness shall be 25-30 mm. fixing edges will be GRC Elements shall be fixed on RCC Structure/Brick Work/ Primary Steel Structure (MS (18 kg/Smt) with protective coat of Red oxide/Zinc Primer Shall be Used). Hilti make GI Screw Fastners or equivalent, GI Thread Rods and MS cleats shall be used for fixing of GRC elements on RCC/MS Primary fabricated structure. Joints shall be filled with PU sealants/ base material of GRC as and where required. The quote rate shall be	8105.68	Eight Thousand One Hundred Five Rupees And Sixty Eight Paise Only	SMT	2374964.24

		inclusive of all design, & shop drawing and sample mock of all elements approval from Architect & consultant. The quote rate shall include all Taxes, duties, statutory obligations and safety code compliance as per client. Rate shall be inclusive of all required fabrication work for fixing only primary structure shall be provided as base structure only as per requirement. Mode and method of measurement shall be in accordance with IS: 1200. a ) GRC Columns: as per specification work (Elevation area- At any height) (Elevation area)				
50	225.00	BAMBOO PANELING : Manufacturing, supply , arrangement and keeping in good condition until project completion of Bamboo strips panelled ceiling as required to be fitted with the help of MS framing at all heights/all levels in Fencing work with Borex treatment on bamboo & PU polish at regular intervals for Look . Make as per design and drawing with necessary arrangement like fix on MS frame 45*45*3mm Angle similar etc. with the help of fixtures such as bonding agents such as fevicol, screws and framing with of any diameter, fixing with the help of gripper or relevant technique etc. complete of design provided by the architect and should be installed as per the directions provided by the engineer-in-charge. Make as per tender or Equivalent.	3464.86	Three Thousand Four Hundred Sixty Four Rupees And Eighty Six Paise Only	SMT	779593.5
51	1815.00	Removing Paver Block - Removing existing interlocking cement concrete paver blocks of any size and thickness from paved areas, including lifting, dismantling, stacking of serviceable pavers separately for reuse at designated location, disposal of unserviceable material, and clearing the site complete. The item includes careful removal without damaging adjoining pavements, kerbs, or	139.38	One Hundred Thirty Nine Rupees And Thirty Eight Paise Only	SMT	252974.7

		services, cleaning of paver blocks, and transportation within site limits as directed by the Engineer-in-Charge. Rate shall include all labour, tools, equipment, handling, loading, unloading, and incidentals, complete.				
52	70.00	GRASS PAVER : Providing and laying precast concrete grass pavers of specified dimensions 600mm x 400mm x 75mm, with open grid design to allow for grass growth, including leveling, joint filling with suitable material, and compaction, complete as per manufacturer's specifications and as directed by the Engineer (a) VYARA_Ecological paver_grid paver (b) Finish : Shotblasted with premiership protection (coated) (c) HB Internal (Radius 3,6,10 mtr) 780x255x125mm	2244.84	Two Thousand Two Hundred Forty Four Rupees And Eighty Four Paise Only	SMT	157138.8
53	442.00	Road marking with hot applied thermoplastic paints with reflectorising glass beads on bitumin surface providing and laying a hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250gms per sqm area, thickness of 2.5mm is excluding of surface applied glass beds as per IRC:35-2015. The finished surface to be level, uniform and free from streaks and holes. zebra patta /bump patta lane/center line/ edge line/cut patta. The white color marking should provide liminance coefficinet on cemend road shall be min 130 mcd/m2/lux and Asphalt road shall be min 100 mcd/m2/lux during the service life during the day time. The marking should meet the performance criteria for night time reflectivity, wet reflectivity and skid resistance as mentioned in the section-15 of IRC 35-2015. Warranty for the Retro reflectivity should be two years.	367.72	Three Hundred Sixty Seven Rupees And Seventy Two Paise Only	SMT	162532.24



54	332.00	Cat Eye / Road Stud / RPM: Supplying Raised Pavement Markers made of polycarbonate and ABS moulded body and reflective panels with Micro prismatic lens (No Glass bead lens) capable of providing total internal reflection of the light entering the lens face and shall support a load of 13635 kgs. tested in accordance to ASTM D 4280 Type H and complying to Specifications of Category A of MORTH Circular No RW/NH/33023/10-97 D DO III Dt 11.06. 1997. The height, width and length shall not exceed 20 mm, 130 mm and 130 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 +/- 5 degree. The body of the marker should having finger grip for easy and accurate placement and application with epoxy / bituminous Adhesive as recommended by the manufacturer of the marker. The color of the marker should be as per the IRC 35- 2015 and as directed by Engineer-in-charge.	217.40	Two Hundred Seventeen Rupees And Forty Paise Only	NO'S	72176.8
55	1.00	RCC GSRs AND/OR SUMPS Preparing structural design of 1 lacs liters (Partition wall for fire and water Supply ) RCC (all Part of Tank) Underground / Partially underground of required capacity as per relevant I.S. s and constructing the same , including excavation in all types of soil strata (Including Rock) and shoring strutting if required, for loose soil/ to protect from collapse due to nearby traffic load, casting 100 mm thick PCC leveling course in M-15 , refilling the pit with proper soil and disposing the surplus stuff within a lead of 50 meters. Including water proof cement plaster CM 1:2 with approved water proofing compound to inside water touching surface to container with all type of labour and material charges of lowering, laying, erecting/ hosting	384404.11	Three Lakh Eighty Four Thousand Four Hundred Four Rupees And Eleven Paise Only	NO'S	384404.11

		and jointing of pipe assembly to inlet, outlet, overflow, and washout and by pass arrangement as per hydraulic design. Providing and fixing accessories like GI Ladder, CI Manhole frame and cover, water level indicator, adequate CI cowl type ventilators or lantern type ventilator with stainless steel jali. B.B Chambers for valves. Providing and applying three coats of water proof cement paint/snowcap to the outside face of the structure. It also includes satisfactory water tightness Test as per relevant I .S. code and painting name of the scheme and capacity & grade of the tank as per direction of engineer in charge in P.C.C. M15, RCC M30, and plaster in 15 mm.				
56	5.00	Percolation Well -Boring dia.450mm and Sinking -100 rmt depth 20 cm. Diameter PVC pipe. Percolation well with casing pipes as per specifications with any approved system like Auger, Derrick etc. including installation of other equipments such as Pumps, Water Tanks, etc. complete and thereafter withdrawal and removal of the system etc. complete and clearing the site on completion., (1.)Providing and Constructing of 25000 liter Collection tank of 3.0 dia with 3.0 meter liquid depth including excavation, 100 mm thick PCC in 1:4:8 at bottom of brick foundation, 350 mm thick brick masonry up to 3.0 meter and 450 mm thick brick masonry from 3.01 meter to PCC top in 1:6 cement mortar, 15 mm thick cement finish plaster on inside & outside surface of the walls in 1:4 cement mortar, 125 mm thick RCC slab in 1:2:4 with 2 nos of 600 mm x 600 mm manhole cover with frame at the top of collection pit, filling of 600 mm thick over burnt brickbats at the bottom of well, 150 mm wide CI rungs in walls at 600 mm c/c distance,	722150.00	Seven Lakh Twenty Two Thousand One Hundred Fifty Rupees Only	Nos	3610750

		<p>providing of 150 mm diameter PVC sleeves in between collection tank and filtration tank and back filling of trenches with proper compaction etc. as per detail given by the engineer in charge.(Civil works to be done by civil contractor as per the structural and plumbing drawings) .</p> <p>(2)Providing and Constructing of 20000 liter Filtration channel of 750 mm wide and 2 meter deep around the 3.0 m dia. collection tank including excavation, 100 mm thick PCC in 1:4:8 at bottom, 350 mm thick brick masonry in 1:6 cement mortar, 15 mm thick cement finish plaster on inside &amp; outside surface of the walls in 1:4 cement mortar, filling of 300 mm thick 20 to 40 mm size and 300 mm thick 10 to 20 mm size gravels, providing and fabrication of MS grills on top of filtration channel and back filling of trenches with proper compaction etc. as per detail given by the engineer in charge. Supplying, lowering, fitting, fixing and joining with Strainer, 15 cm. diameter M.S. Pipe of minimum 5.40 mm wall thickness (DIAMETER – ERW or equivalent make) with sockets, specials complete with cutting, threading and red lead paint, etc. complete up to the required depth.</p> <p>(3)Supplying, lowering, fitting, fixing and joining with 40 rmt Strainer, 20 cm. diameter PVC Pipe CM class of minimum 10 mm wall thickness with sockets, specials complete with cutting, threading etc. complete up to the required depth.</p> <p>(4)Supplying, fitting, fixing and lowering 20 cm. diameter strainer pipes 20 rmt having slot size 1.5 mm x 57 mm (72 slots in one line) in the casing pipe to the required depth as per direction of the employer.</p> <p>(5)Supplying, fitting, fixing and lowering 2 no. 30 cm. diameter</p>				
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		<p>strainer pipe 1.2 m long having slot size 1.5 mm x 57 mm (72 slots in one line) in the casing pipe to the required depth as per direction of the employer.</p> <p>(6)Providing and lowering 1 set 20 cm size PVC (3 m long) bail plug to the bore hole.</p> <p>(7)Supplying, washing and shrouding with as per required quantity and grade of gravel, the annular gap between the casing pipe and the remaining annular space to be filled in with puddle clay .</p> <p>(8)Hire and labour charges for necessary tools and plants for conducting proper tests for percolation water, lowering strainers to the required depth, uncovering the strainer by withdrawing the casing pipe, pumping water by suitable means withdrawing the strainers, lowering casing pipes to the required depth all complete as per direction and satisfaction of the employer.</p>				
		<b>Garden work</b>				
57	1725.00	Excavation in any soil upto 30 cm. depth, bracking clods removing unwanted stuff such as brick bats , stones, grass roots ect. Refilling the same , preplanting watering , weeding , top- digging relevelling and bringing the earth to fine tilth , ready for sowing or planting .	127.80	One Hundred Twenty Seven Rupees And Eighty Paise Only	CMT	220455
58	1725.00	Supplying and stacking of good earth at site.	175.39	One Hundred Seventy Five Rupees And Thirty Nine Paise Only	CMT	302547.75
59	288.00	Providing farm yard manure of approved quality on site	397.49	Three Hundred Ninety Seven Rupees And Forty Nine Paise Only	CMT	114477.12

60	288.00	Providing labour for spreading & mixing the manure evenly with 8 to 10 cm on prepared area @ 5 cmt / 100 smt . Area. ( for 1 cmt of manure rate )	102.25	One Hundred Two Rupees And Twenty Five Paise Only	CMT	29448
61	61870.00	Supplying and stacking well decomposed fully dry cow dung powder manure, without weeds or impurities at site including royalty and carriage upto site and all leads and lifts including mixing with good soil for plantation. The NPK composition to be in range of 0.5-1.5% Nitrogen (N), 0.2-0.5% Phosphorus (P <sub>2</sub> O <sub>5</sub> ), and 0.5-0.8% Potassium (K <sub>2</sub> O ) and organic matter to be at least 50%. It has to have moisture content of less than 10-15% and pH in range of 6.5-7.5. The contractor to supply NABL-accredited labs for each batch of 1000 kg.	9.02	Nine Rupees And Two Paise Only	Kg	558067.4
62	4.00	Providing and applying humic acid (organic soil conditioner) in granular/liquid form, derived from natural leonardite, with minimum Humic Acid content not less than 70%, containing beneficial fulvic acids and trace nutrients, for improving soil structure, microbial activity and nutrient uptake. The item includes supply, transportation, handling, dilution/mixing, application at site by manual/mechanical means, watering after application, complete as per manufacturer's specifications and directions of Engineer-in-Charge.	174.98	One Hundred Seventy Four Rupees And Ninety Eight Paise Only	Kg	699.92
63	58.00	Supplying insecticides at site well packed in bottle of 20 litre. weight including royalty and carriage with all leads and lifts (product to be brought in company sealed packing only)	12365.43	Twelve Thousand Three Hundred Sixty Five Rupees And Forty Three Paise Only	20 L bottle	717194.94
64	1560.00	Providing and planting pure carpet lawn pieces and maintain the same till is well established ( about 45 days	485.70	Four Hundred Eighty Five	SMT	757692

		)		Rupees And Seventy Paise Only		
65	32280.00	Raising hedge with digging and planting : After excavating soil upto 30cm depth & removing unwanted stuff, stones etc.Preparing soil for planting by supplying and mixing fertile river soil layer up to 15 cm. Excavating pits of required size and providing cutting of cleredendron (kadavi mehndi),plumbago capensis (nila chitrak) etc. having height of 1 to 1.5 ft and bag size is 6 inch x 6 inch and planting as directed & maintaining till well established etc. complete	18.03	Eighteen Rupees And Three Paise Only	NOS	582008.4
66	650.00	Creeper/Climbers Plant assorted with digging and planting - Quisqualis indica, Petrea volubilis, Ipomea purpurea (Morning glory), Vernonia elaeagnifolia (curtain creeper), Tecoma grandiflora, Jasminum grandiflorum (chameli), Allamanda, Bignonia, etc. in their assorted species height 30-45 cm. in earthen/ plastic pot of size 20 cm/ in bag of size 25 cm	99.69	Ninety Nine Rupees And Sixty Nine Paise Only	NOS	64798.5
67	900.00	Shrubbery plantation: Supplying of well grown shrub plants(Beloperone, Lagerstroemia indica, Malpighia coccigera, Nyctanthes arbor-tristis, Putranjiva roxburghii, Allamanda, Petrea volubilis. Mussanda, Amaranthus, Michelia champa (Golden Champa), Pterospermum acerifolium (Kanak Champa), Hamelia, Ticoma, Tabernaemontana coronaria, Nerium Olender, Nerium Dwarf, Lavendra, Daffodil, Euphorbia, Calliandra, Tecoma gaudichaudi, Acalypha various, Euphorbia, Lantana various, Excoecaria, Plumbago capensis, signonium various, assorted lilies, Ficus panda, Tabernaemontana, execaria bi colourm Vernonia elaeagnifolia, Thuja compacta, Bignonia venusta, Bougainvillea, Clerodendrum thomsoniae etc) on	934.94	Nine Hundred Thirty Four Rupees And Ninety Four Paise Only	SMT	841446

		and average height of 3' to 4' and planting in 2 rows at 300 mm c/c in 300 x300 x300 mm size pits by providing and mixing FYM@ 0.06 cmt / pit with soil pesticides and Insectisid . Plants should be dieses free and fungs free in 8x10 polythen bag . plastic bags or pots should be removed carefully and soil around the roots should not be dropped or distrubed much . bill shall be placed after completon of maintenance period but not before stabilizing the shrubs. mortality rates to be inclusive. work shall be done as shown in the drawing or as directed and approved by EIC. the ground coverage should be dense and uniform throughout the planting area. Work shall be done as shown in the drawing or as directed and approved by EIC.				
68	80.00	Trees Plantation: Supplying and planting of trees of specified (Alstonea scholaris, Erythna indica, Jacaranda mimosifolia, Delonix regia , Anthocephalus cadamba, Spathodea companulata, Neem (Azadirachta indica), Lagerstromia speciosa , Tabebuia argenta, Cordia sebastena, Mimusops elegi, Bauhinia blakeana, Kigellia pinata, Cassia fistula, Banyan, Ficus religiosa, Peltophoroum, Bottle brush, Silver Oak, Billi, Mahagony, Pendula, Desi Asopalav, Sevan, Badam, Ficus infectoria, Pinkesiya, Millingtonia hotensis, Rain Tree, Bakm limdi, kasid, Ashok tree, parkiya, Tabebuia Roseya, miletiya etc.) Varity Including excavation of pit 600x600x600 mm depth mixing of FYM & existing soil in ratio 1:3 trmit treatment amd planting of plants (height 8' to 10' above bags/pots. soil mounts 4" to 8" in size. Tree plantation should be carried on neatly accurately and with perfaction as per drawing and instruction given by the EIC. plastic bags or pots should be	1000.05	One Thousand Rupees And Five Paise Only	NOS	80004

		removed carefully and soil around the roots should not be dropped or disturbed much. Bill shall be placed after completion of maintenance period but not before stabilizing the shrubs. Mortality rates to be inclusive. Providing and mixing tripod made of wooden ball, height 1.50 mtr. Top bracker to be 300 mmx300mm leg embedded in ground up to 300 mm and to have tar coat. Work shall be done as shown in the drawing or as directed and approved by EIC.				
69	40.00	Palm plantation : supplying of well grown palm plants on and average height of 5' to 6' and planting at 1000 mm c/c in 450x450 x450 mm size pits by providing and mixing FYM@ 0.06 cmt / pit with soil pesticides and Insectisid . Plants should be dieses free and fungus free in polythen bag . plastic bags or pots should be removed carefully and soil around the roots should not be dropped or disturbed much . bill shall be placed after completion of maintenance period but not before stabilizing the trees. mortality rates to be inclusive. work shall be done as shown in the drawing or as directed and approved by EIC.	1967.49	One Thousand Nine Hundred Sixty Seven Rupees And Forty Nine Paise Only	NOS	78699.6
70	46.00	Topiary plantation : supplying of well grown topiary plants on and average height of 5' to 6' and planting in 1000x1000 x1000 mm size pits by providing and mixing FYM@ 0.06 cmt / pit with soil pesticides and Insectisid . Plants should be dieses free and fungus free in polythen bag . plastic bags or pots should be removed carefully and soil around the roots should not be dropped or disturbed much . bill shall be placed after completion of maintenance period but not before stabilizing the trees. mortality rates to be inclusive. work shall be done as shown in the drawing or as directed and approved by EIC.	21903.30	Twenty One Thousand Nine Hundred Three Rupees And Thirty Paise Only	NOS	1007551.8



71	60.00	Special topiary plantation : supplying of well grown topiary plants on and average height of 6' to 7' and planting in 1000x1000x1500 mm size pits by providing and mixing FYM@ 0.06 cmt / pit with soil pesticides and Insectisid . Plants should be dieses free and fungus free in polythen bag . plastic bags or pots should be removed carefully and soil around the roots should not be dropped or distrubed much . bill shall be placed after completon of maintenance period but not before stabilizing the trees. mortality rates to be inclusive. worek shall be done as shown in the drawing or as directed and approved by EIC.	65383.80	Sixty Five Thousand Three Hundred Eighty Three Rupees And Eighty Paise Only	NOS	3923028
72	18.00	Special Topiary plantation : supplying of well grown topiary plants on and average height of 12' to 14' and planting in 1250x1250x1500 mm size pits by providing and mixing FYM@ 0.06 cmt / pit with soil pesticides and Insectisid . Plants should be dieses free and fungus free in polythen bag . plastic bags or pots should be removed carefully and soil around the roots should not be dropped or distrubed much . bill shall be placed after completon of maintenance period but not before stabilizing the trees. mortality rates to be inclusive. worek shall be done as shown in the drawing or as directed and approved by EIC.	136039.61	One Lakh Thirty Six Thousand Thirty Nine Rupees And Sixty One Paise Only	NOS	2448712.98
73	1200.00	Supply saplings of species specifies ( Lantana, Red Fountain Grass, Green Fountain Grass, Sensiveriya, Porchuleca, Pedilenthass, ketki,etc.)with digging and planting well branched, well established & free from disease at site as per the instructions bag size is 6 inch x 8 inch,	61.51	Sixty One Rupees And Fifty One Paise Only	NOS	73812

74	24.00	<p>Maintenance of garden after satisfactorily completion of work by 10 labours and 1 technical supervisor having qualification of B.sc. Horticulture for maintenance activities like mowing and weeding of lawn, digging, cleaning and planting shrubs, tress, palm, potted plants etc, making ring around the tree and shrubs watering the whole area (i.e lawn, shrub,s trees, seasonal flower bed, potted plants etc.) pruning and trimming of Hedge tree Shrubs in good and different Shapes Spraying of insecticides, pesticides, fertilizers Spreading of field Soil and farm yard Manure over the lawn plot Shrubbery area regularly. Planting of Trees, shrubs, potted plants, lawns, gap filling etc by their own cost. Bed Should be cleaned, digged watered, pruned &amp; apply insecticide, Pesticides Fertilizer, Farm yard Manure, Soil by their own cost as when need to Requirement and gap filling, watering the Decorative indoor plants and replacing them as and when required. The maintenance of garden Should be done by their own equipments like Electric/Hand lawn mover machine, PVC pipe, khurpi, kodali, pavada, Hand-Cart, or Tractor-Trolly for disposing the waste materials etc. The labour Should be present on different occasions &amp; programmes etc. when ever required even on holiday day and night etc. (ii) Disposal of Dump material at the fixed location decided by AMC office by tractor trolley.</p>	188530.47	One Lakh Eighty Eight Thousand Five Hundred Thirty Rupees And Forty Seven Paise Only	Month	4524731.28
		<b>Irrigation work</b>				
75	48.00	SCH-40 PIPE SCH 2 1/2"	483.54	Four Hundred Eighty Three Rupees And Fifty Four Paise Only	Rmt.	23209.92

76	2028.00	PVC PIPE 75 MM X 6 KG/CM2	321.94	Three Hundred Twenty One Rupees And Ninety Four Paise Only	Rmt.	652894.32
77	1758.00	PVC PIPE 63 MM X 6 KG/CM2	160.34	One Hundred Sixty Rupees And Thirty Four Paise Only	Rmt.	281877.72
78	1014.00	PVC PIPE 50 MM X 6 KG/CM2	66.91	Sixty Six Rupees And Ninety One Paise Only	Rmt.	67846.74
79	2400.00	PVC PIPE 40 MM X 6 KG/CM2	69.44	Sixty Nine Rupees And Forty Four Paise Only	Rmt.	166656
80	24.00	SCH-40 PIPE 3/4"	66.91	Sixty Six Rupees And Ninety One Paise Only	Rmt.	1605.84
81	36.00	SCH-40 PIPE 1"	99.74	Ninety Nine Rupees And Seventy Four Paise Only	Rmt.	3590.64
82	60.00	POP UP SPRINKLER 5004 9 TO 14 MTR	2727.00	Two Thousand Seven Hundred Twenty Seven Rupees Only	Nos	163620
83	423.00	SPRAY POP-UP SPRINKLER 4" 2.4 TO 5.4 MTR	727.20	Seven Hundred Twenty Seven Rupees And Twenty Paise Only	Nos	307605.6
84	37.00	ROTARY POP-UP SPRINKLER 4" 5.18 TO 7.30 MTR	863.55	Eight Hundred Sixty Three Rupees And Fifty Five Paise Only	Nos	31951.35

85	60.00	SWING JOINT 3/4"	2424.00	Two Thousand Four Hundred Twenty Four Rupees Only	Nos	145440
86	460.00	SWING JOINT 1/2"	265.13	Two Hundred Sixty Five Rupees And Thirteen Paise Only	Nos	121959.8
87	571.00	P.P. CLAMP SADDLE - ALL SIZES	156.55	One Hundred Fifty Six Rupees And Fifty Five Paise Only	Nos	89390.05
88	51.00	LOCKABLE QUICK COUPLING VALVE 1" WITH FOUR SET OF KEY & SWEIVEL ELBOW (BRASS)	2474.50	Two Thousand Four Hundred Seventy Four Rupees And Fifty Paise Only	Nos	126199.5
89	51.00	10" ROUND VALVE BOX (FOR HYDRANT)	1287.75	One Thousand Two Hundred Eighty Seven Rupees And Seventy Five Paise Only	Nos	65675.25
90	2079.00	ADJUSTABLE BUBBLER, PRESSURE COMPENSATING, 1/2' THREAD	358.55	Three Hundred Fifty Eight Rupees And Fifty Five Paise Only	NOS	745425.45
91	2079.00	UPVC BUBBLER ASSEMBLY 1/2"	297.95	Two Hundred Ninety Seven Rupees And Ninety Five Paise Only	Nos	619438.05
92	2079.00	P.P. CLAMP SADDLE - ALL SIZES	156.55	One Hundred Fifty Six Rupees And Fifty Five Paise Only	Nos	325467.45

93	2.00	PUMP WITH PANEL 7.5 LPS AT 45 MTR HEAD	68937.55	Sixty Eight Thousand Nine Hundred Thirty Seven Rupees And Fifty Five Paise Only	Nos	137875.1
94	2.00	PLY RELAY	631.25	Six Hundred Thirty One Rupees And Twenty Five Paise Only	Nos	1262.5
95	2.00	SEMI AUTOMATIC DISC FILTER 2"	38814.30	Thirty Eight Thousand Eight Hundred Fourteen Rupees And Thirty Paise Only	Nos	77628.6
96	2.00	HEADER ASSEMBLY	12625.00	Twelve Thousand Six Hundred Twenty Five Rupees Only	Nos	25250
97	2.00	PRESSURE RELIEF VALVE 2"	14771.25	Fourteen Thousand Seven Hundred Seventy One Rupees And Twenty Five Paise Only	Nos	29542.5
98	9.00	1" DOUBLE ACTING AIR CUM VACCUM RELEASE VALVE WITH GM VALVE	2979.50	Two Thousand Nine Hundred Seventy Nine Rupees And Fifty Paise Only	Nos	26815.5
99	9.00	P.P. CLAMP SADDLE 75 X 1"	284.06	Two Hundred Eighty Four Rupees And Six Paise Only	Nos	2556.54

100	24.00	10" ROUND VALVE BOX (FOR AIR VALVE & ISOLATION VALVE)	1287.75	One Thousand Two Hundred Eighty Seven Rupees And Seventy Five Paise Only	Nos	30906
101	15.00	PVC BALL VALVE 75 MM PN 10 - ISOLATION VALVE	2373.50	Two Thousand Three Hundred Seventy Three Rupees And Fifty Paise Only	Nos	35602.5
102	50.00	PVC BALL VALVE 63 MM PN 10 THREADED	1363.50	One Thousand Three Hundred Sixty Three Rupees And Fifty Paise Only	Nos	68175
103	50.00	12" RECTANGULAR VALVE BOX(FOR 63MM BALL VALVE)	2727.00	Two Thousand Seven Hundred Twenty Seven Rupees Only	Nos	136350
104	1.00	JAMBO RECTANGULAR VALVE BOX(BUTTER FLY VALVE)	5681.25	Five Thousand Six Hundred Eighty One Rupees And Twenty Five Paise Only	Nos	5681.25
105	2.00	22 STATION CONTROLLER WITH EXPANSION MODULES	39895.00	Thirty Nine Thousand Eight Hundred Ninety Five Rupees Only	Nos	79790
106	13725.00	DIRECT BARRIER CABLE 2.5 SQ. MM	68.68	Sixty Eight Rupees And Sixty Eight Paise Only	Rmt.	942633

107	1630.00	63MM PVC CABLE CONDUIT PIPE	160.34	One Hundred Sixty Rupees And Thirty Four Paise Only	Rmt.	261354.2
108	15.00	SOLENOID VALVE 2"	5757.00	Five Thousand Seven Hundred Fifty Seven Rupees Only	Nos	86355
109	215.00	WEATHER PROOF CABLE CONNECTOR	200.74	Two Hundred Rupees And Seventy Four Paise Only	Nos	43159.1
110	2.00	STABILIZER	5681.25	Five Thousand Six Hundred Eighty One Rupees And Twenty Five Paise Only	Nos	11362.5
111	7248.00	TRENCHING & BACK FILLING	121.20	One Hundred Twenty One Rupees And Twenty Paise Only	Rmt.	878457.6
112	180.00	AUGURING (6" DIA)	2525.00	Two Thousand Five Hundred Twenty Five Rupees Only	Rmt.	454500
113	1.00	CARTAGE	50500.00	Fifty Thousand Five Hundred Rupees Only	LS	50500
114	5750.00	PVC/GI FITTINGS,PUMP INSTALLATION & ACCESOIRES	151.50	One Hundred Fifty One Rupees And Fifty Paise Only	Smt	871125
		<b>Electrical work</b>				
115	2000.00	Providing and erecting ISI mark Medium class RIGID PVC PIPES of following size complete to be erected on/in wall or ceiling erected with necessary PVC fittings & Junction boxes fixed with adhesive solution &	33.33	Thirty Three Rupees And Thirty Three Paise Only	Mtr.	66660

		Clamps with following dia of pipes, in approved manner as directed				
		(b) 25 mm				
116		providing and erecting Mains with ISI marked, 1.5KV grade electrolyte multi stranded, annealed copper conductor with heat resistant PVC insulated conforms to IS 694, IEC - 227 erected in existing pipe of following size (Specifically for control panel, relays, power switchgears, motor starters & control wiring) with required size of copper lugs, nuts and bolts if required.				
	100.00	(c) One wire 2.50 sq. mm	27.27	Twenty Seven Rupees And Twenty Seven Paise Only	Mtr.	2727
	50.00	(d) One wire 4.00 sq. mm	37.37	Thirty Seven Rupees And Thirty Seven Paise Only	Mtr.	1868.5
	50.00	(e) One wire 6.00 sq. mm	56.56	Fifty Six Rupees And Fifty Six Paise Only	Mtr.	2828
	20.00	(f) One wire 10.00 sq. mm	91.91	Ninety One Rupees And Ninety One Paise Only	Mtr.	1838.2
	10.00	(i) One wire 35.00 sq. mm	300.98	Three Hundred Rupees And Ninety Eight Paise Only	Mtr.	3009.8
	10.00	(j) One wire 50.00 sq. mm	470.66	Four Hundred Seventy Rupees And Sixty Six Paise Only	Mtr.	4706.6



117	81.00	<p>Replacing Old and u/s by Supplying and erecting LED street light / Flood light fittings with High power White LEDs wattage of 3 Watt and above assembled on single MCPCB, efficiency more than 130 lm/w and corrosion free High pressure die cast aluminum housing with smooth finish powder coated and heat sink extruded aluminium with diffuser and Polycarbonate optics/ lenses, with toughened glass with company mark/name engraved or embossed 160 to 270 V, Power Factor more than 0.95, THD &lt; 10 %, CCT 3000 K to 5700K, Uniformity ratio &gt; 0.45, Luminaire efficacy &gt; 100 lumens/watt . LED driver efficiency &gt; 85 %.( fittings required LM-79 &amp; LM-80 certificates)(NOTE: Below description have shown ranges of Wattage capacity of LED fittings. The Engineer incharge may select any wattage capacity between the ranges shown.)</p> <p>(A) Street Light (IP-65), Surge protection -4KV integral and ,Light must have 440VAC line supply with over-voltage protection.</p> <p>(iii) Above 60 to 90 watts</p> <p>Cat-III</p>	5976.17	Five Thousand Nine Hundred Seventy Six Rupees And Seventeen Paise Only	Ea.	484069.77
118	6.00	<p>Providing and erecting Approved make Four pole moulded case circuit breaker having breaking capacity ICU of 35 KA. at 415 V. having normal current rating 125A. with Fixed thermal &amp; magnetic release suitable to work on A.C.supply 50 c/s. with all internal connections, spreader tinned copper &amp; complete erected in existing 16 G.M.S. housing.</p> <p>ICS=100% of ICU only Cat III</p>	8055.76	Eight Thousand Fifty Five Rupees And Seventy Six Paise Only	Ea.	48334.56
119	1.00	<p>Providing and erecting Approved make Four pole moulded case circuit breaker having breaking capacity ICU of 35 KA. and above at 415 V . having normal current rating 250A. with variable thermal &amp; magnetic release suitable to work on A.C.supply 50 c/s.</p>	20946.39	Twenty Thousand Nine Hundred Forty Six Rupees And Thirty Nine	Ea.	20946.39

		with all internal connections, spreader tinned copper & complete erected in existing 16 G.M.S. housing.		Paise Only		
		ICS=100% of ICU only      Cat III				
120		Providing and erecting Approved make Earth fault Relay suitable to mount with inter connection suitable to following size of moulded case circuit breaker having CT ratio & MCCB rating as following along with shunt trip 220V AC. with all internal connections & complete erected in existing M.S.housing..				
	1.00	(2) 125 A -200 A , CT Ratio 1/200	4983.34	Four Thousand Nine Hundred Eighty Three Rupees And Thirty Four Paise Only	Ea.	4983.34
	1.00	(3) 250 A -400 A , CT Ratio 1/400	5415.62	Five Thousand Four Hundred Fifteen Rupees And Sixty Two Paise Only	Ea.	5415.62
121	2.00	Providing and erecting following additional parts for panel mounting MCCBs	873.65	Eight Hundred Seventy Three Rupees And Sixty Five Paise Only	Ea.	1747.3
		(A)Extended operating rotary handle with pad lock with three position trip,off,on suitable for 25A to 250 A panel mounting cat-III				
122	3.00	Supplying and erecting triple pole & neutral 440V / 500V panel mounting Copper Busbars with four equal Nos. of electrolyte bus having current density not more than 1.6 Amp. / sq.mm (Rated current / cross section area) duly wrapped with colour insulating tape for phase sequence of following current carrying capacity, erected with necessary bus bar	3202.71	Three Thousand Two Hundred Two Rupees And Seventy One Paise Only	Rn.Mtr	9608.13

		supports /insulators, main cable socket to each bar, erected in existing cubical panel with necessary connections.				
		(B) Suitable for 200 Amp. capacity				
123	69.00	providing and erecting Miniature circuit breaker single pole 0.5A to 2A system and having breaking capacity 10 KA to be erected in existing box. confirming to IS 8828/1996 with ISI Mark	270.68	Two Hundred Seventy Rupees And Sixty Eight Paise Only	Ea.	18676.92
		Cat.III				
124	108.00	Replacing Old and u/s byproviding and erecting Miniature circuit breaker single pole 6A to 25A suitable to operate on 240 V A.C. system and having breaking capacity 10 KA to be erected in existing box. confirming to IS 8828/1996 with ISI Mark	112.11	One Hundred Twelve Rupees And Eleven Paise Only	Ea.	12107.88
		Cat.III				
125	36.00	Providing & erecting 240 V MCB double pole switch for motor & inductive load (C Curve) having 10 KA breaking capacity & confirms to IS : 8828 in existing box having following capacity	330.27	Three Hundred Thirty Rupees And Twenty Seven Paise Only	Ea.	11889.72
		(B) 40 Amp.				
		Cat.III				
126	13.00	Providing & erecting 415 V MCB Four Pole for Motor & Inductive Load (C Curve) having 10KA breaking capacity & confirms to IS :8828 in existing box having following capacity	737.30	Seven Hundred Thirty Seven Rupees And Thirty Paise Only	Ea.	9584.9
		(c)63 Amp.				
		Cat.III				
127	12.00	Providing & erecting 415 V MCB three Pole for Motor & Inductive Load (C Curve) having 10KA breaking capacity & confirms to IS :8828 in existing box having following capacity	587.82	Five Hundred Eighty Seven Rupees And Eighty Two Paise Only	Ea.	7053.84
		(a) 6 to 32 Amp.				
		Cat.III				
128	12.00	Providing and erecting Approved make RCCBs conforming to IS: 12640 and having sensitivity of 30 mA and	3040.10	Three Thousand Forty Rupees	Ea.	36481.2

		Short Circuit withstand capacity of 10 KA and suitable for operation on 3 phase and neutral 415V,50Hz. having characteristic of quick action & tripping with all advance feature & do not incorporate any electronic component for following Max. rating erected as directed.		And Ten Paise Only		
		(iii) 63 Amps. FP				
		Cat. III				
129	20.00	Providing and erecting HOT deep Galvanised iron strip wire 8 to 16 SWG.	77.77	Seventy Seven Rupees And Seventy Seven Paise Only	Kg.	1555.4
130	5.00	Supplying & erecting in earthpit of minimum bore dia. 225mm size approved make Safe Earthing Electrode consisting Pipe-in-Pipe Technology as per IS 3043-1987 made of corrosion free hot dipped G.I.Pipes having Outer pipe dia of 80 mm having 80-200 Micron galvanising, Inner pipe dia of 40 mm having 200-250 Micron galvanising, connection terminal dia of 14 mm with constant ohmic value surrounded by highly conductive compound with high charge dissipation suitable for following type of applications with chamber and heavy duty cover (A)(approved make OEM has to submit test certificate including value of earth resistance of installation duly stamped and signed by agency and officer Incharge has to ensure the value of earthing resistane mentioned in test Certificate) & having back filling compound of (B) Inner chemical (CCM Compound)- Resistivity:- 0.2 ohm / meter testing as per IEC 62561-2017, Voltage drop:- < 1 volt at no load & dry form, Sulphar content:- <2%(C) Back fill Compound :- Earthing compound should be capable to retain moisture for long time Necessary test report	7095.25	Seven Thousand Ninety Five Rupees And Twenty Five Paise Only	Ea.	35476.25

		must be submitted by Agency.				
		[B] For Electrical installation up to 11 KV located in other than normal soil i.e. Soft Rock, Marshy Soil etc. -Length of Pipe : 2 mtr -Back filling Compound :1 no. Bag of 25 Kg.				
131	5.00	<p>Providing &amp; erecting weather proof, dust &amp; vermin proof, floor mounted front operated outdoor type double door cubical panel board necessary IP-54 and above protection as per approval from engineer incharge made from 14 SWG thick CRC M.S. sheet for outer body &amp; doors, 16 SWG thick CRC M.S.sheet for internal partitions with necessary accesories , supporting angles/ flats channel including cutting, bending, drilling, welding, riveting with internal partitions &amp; cable alley as per requirements &amp; instruction of engineer-in-charge with erection of</p> <p>supplied switch gears, BUSBARS, suitable size of inter connecting PVC copper wire / copper-aluminium strips, rubber grommets, rib, bakelite control fuses/MCB for measuring instruments, earth bus &amp; earth bolts, foundation flange - bolts-base Plates, sufficient nos. of hinged doors, handles with locking arrangement and rubber gasket,heavy duty end terminal connection,danger notice board,necessary ventilation,earthing strip complete. The Panel shall be</p>	16323.62	Sixteen Thousand Three Hundred Twenty Three Rupees And Sixty Two Paise Only	Sq.Mtr	81618.1

		<p>Painted with epoxy powder coating.</p> <p>(The rates excludes the cost of switchgears, bus bars, inter connecting mains &amp; Copper Aluminium strips, meters, Fuses etc. The dimension shall be measured excluding base beams) The panel shall be supplied with following approved manufacturers with following size.</p> <p>(B) The standard companies switch gear shall be used and only manufacturers at CPRI approved factory</p> <p>(i) with 350 mm depth</p>				
132	250.00	<p>Providing , erecting , fabricating the M.S. structure as per requirement on site incorporating proper size of M.S. angles,square,round, flats, bars, channels, sections complete with cutting, welding, grinding &amp; finishing duly painted with one coat of red oxide with erection on site as per direction of engineer in charge with necessary grouting, cementing, plastering &amp; finishing complete.</p>	77.77	Seventy Seven Rupees And Seventy Seven Paise Only	Kg.	19442.5
133	2072.00	<p>Supplying &amp; erecting XLPE(IS:7098)(I)-88 ISI unarmoured copper cable 1.1 KV grade to be erected as directed of following size.</p> <p>(E) 3 core 2.5 Sq. mm</p>	137.36	One Hundred Thirty Seven Rupees And Thirty Six Paise Only	Mtr.	284609.92
134	490.00	<p>Providing and erecting XLPE(IS:7098)(I)-88 ISI armoured cable multistrand Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables</p> <p>(C) 3 1/2 core 50 Sq. mm ( 25 Sq.1/2 mm core)</p>	284.82	Two Hundred Eighty Four Rupees And Eighty Two Paise Only	Mtr.	139561.8
135		<p>Replacing Old and u/s by Providing and erecting XLPE (IS:7098)(I)-88 ISI armoured cable multistrand / Solid Aluminium conductor for 1.1 KV. to</p>				

		be laid on wall with necessary clamps or in existing trench / pipe of following size of cables				
	795.00	(B) 4 core 6 Sq. mm	126.25	One Hundred Twenty Six Rupees And Twenty Five Paise Only	Mtr.	100368.75
	800.00	(C) 4 core 10 Sq. mm (New)	140.39	One Hundred Forty Rupees And Thirty Nine Paise Only	Mtr.	112312
136		Providing and erecting XLPE(IS:7098)(I)-88 ISI armoured cable multistrand / Solid Copper conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe at road crossing or floor of following size of cables.				
	925.00	(A) 4 core 2.5 Sq. mm	271.69	Two Hundred Seventy One Rupees And Sixty Nine Paise Only	Mtr.	251313.25
	1960.00	(B) 4 core 4 Sq. mm	364.61	Three Hundred Sixty Four Rupees And Sixty One Paise Only	Mtr.	714635.6
	710.00	(C) 4 core 6 Sq. mm	510.05	Five Hundred Ten Rupees And Five Paise Only	Mtr.	362135.5
137	2800.00	Making trench in soft soil of suitable width of 90 cm deep for laying cable or locating the fault all over the run and back filling the same and making the surface as normal ground.	55.55	Fifty Five Rupees And Fifty Five Paise Only	Mtr.	155540
138	2800.00	Covering of cable with second class bricks or cement tiles laid cover the cable crosswise & also on both sides with covering of 7.5 Cm. layer of sand above & below cable (16 bricks per meter)	140.39	One Hundred Forty Rupees And Thirty Nine Paise Only	Mtr.	393092

139		Drilling the road without breaking the road surface (Asphalt) for laying of cable for feeding power supply by making up to following size of holes at both ends complete.				
	20.00	(A) Up to 100 mm bore dia	492.88	Four Hundred Ninety Two Rupees And Eighty Eight Paise Only	Mtr.	9857.6
	20.00	(B) Up to 150 mm bore dia	616.10	Six Hundred Sixteen Rupees And Ten Paise Only	Mtr.	12322
140	50.00	Providing and erecting iron clad cable route marker duly marked with ELE.CABLE of size 23 cm.X 12 cm. Flushed with ground in cement foundation as directed by Engineer in charge.	240.38	Two Hundred Forty Rupees And Thirty Eight Paise Only	Ea.	12019
141	50.00	Providing & laying. R.C.C. Hume pipe for cable to be laid 90 cm. below ground across the road crossing or on floor with necessary material in an approved manner and making the ground as per original. (D) 250 mm dia	295.93	Two Hundred Ninety Five Rupees And Ninety Three Paise Only	Mtr.	14796.5
142		Providing & laying approved make Double walled corrugated pipes (DWC) of polyethylene(conforming to IS 14930 II )with necessary connecting accessories of same material at required depth in existing trench for laying of cable. below ground / road surface for enclosing cable				
	3000.00	(A)50 mm outer dia	62.62	Sixty Two Rupees And Sixty Two Paise Only	Mtr.	187860
	200.00	(C)90 mm outer dia	95.95	Ninety Five Rupees And Ninety Five Paise Only	Mtr.	19190
143		Providing and, fixing heavy duty flange type brass cable gland with rubber ring for PVC insulated				



		armoured cable complete with out going tails, insulating tape etc for following size of cables.				
	10.00	(A) 2 to 4 core 2.5 / 4 Sq. mm	33.33	Thirty Three Rupees And Thirty Three Paise Only	Ea.	333.3
	55.00	(B) 2 to 4 core 6 Sq. mm	38.38	Thirty Eight Rupees And Thirty Eight Paise Only	Ea.	2110.9
	60.00	(C) 2 to 4 core 10 Sq. mm	38.38	Thirty Eight Rupees And Thirty Eight Paise Only	Ea.	2302.8
144	6.00	Providing and, fixing heavy duty flange type brass double compression type cable gland with rubber ring for PVC insulated armoured cable complete with out going tails, insulating tape etc for following size of cables. (B) 3 & 1/2 core 35/50 Sq. mm	75.75	Seventy Five Rupees And Seventy Five Paise Only	Ea.	454.5
145		Solder less crimping type Aluminium lugs conforming to IS suitable for cable of following size evenly crimped with high pressure tool & connected to switchgear terminals with brass/cadmium plated nut bolts in an approved manner.				
	220.00	(A) 1.5/ 2.5/4/6 Sq.mm	6.06	Six Rupees And Six Paise Only	Ea.	1333.2
	240.00	(B) 10 Sq.mm	13.13	Thirteen Rupees And Thirteen Paise Only	Ea.	3151.2
	24.00	(D) 35/50 Sq.mm.	20.20	Twenty Rupees And Twenty Paise Only	Ea.	484.8
146	260.00	Solder less crimping type Copper lugs conforming to IS suitable for cable of following size evenly crimped with high pressure tool & connected to switchgear terminals with brass/cadmium plated nut bolts in an approved manner.	8.08	Eight Rupees And Eight Paise Only	Ea.	2100.8

		(A) 1.5/2.5 to 6 Sq.mm				
147	104.00	Providing 1:2:4 cement concrete foundation & 70 % PCC from bottom including excavation for the pole of size 45 x 45 x 100 cm. Deep in below ground level with plinth of 45 cm x 45 cm (or 45 cm dia x 45 cm) high upper ground level with necessary curing and finishing in approved manner. ( for 4 & 6 mtr pole)	809.01	Eight Hundred Nine Rupees And One Paisa Only	Ea.	84137.04
148		Replacing Old and u/s by Supplying & erecting approved make SMC press moulded composite FRP. loop-in, loop-out approx. 2mm thick box complete with Bakelite connector strip 5way(3P+N+E),DIN rail for mounting mob & hinged doors as per requirement having locking arrangements with mounting clamp with nuts, bolts & washers suitable for erection on pole with cable clamps& earth bolt of following size of box.				
	69.00	(C)150mm x 125mm x 100mm [deep]	476.72	Four Hundred Seventy Six Rupees And Seventy Two Paise Only	Ea.	32893.68
	10.00	(I) 400mm x 300mm x 190mm [deep](New)	3420.87	Three Thousand Four Hundred Twenty Rupees And Eighty Seven Paise Only	Ea.	34208.7
149	12.00	Supplying & erecting approved make Digital time switch having lithium cell 6 years operative and operate battery backup 1 channel day clock with 14 memory programme, suitable to operate on 240V + 5%, 16A with, floating contacts Minimum switching setup time 1 minimum & LCD display. Also comprised permanent ON/OFF switching. Programming switches & housed in fire proof thermoplastic	3168.37	Three Thousand One Hundred Sixty Eight Rupees And Thirty Seven Paise Only	Ea.	38020.44

		enclosure & transparent cover erected as required with necessary connection erected as directed.				
150	12.00	Supplying & erecting power contactor ,AC3 duty for time switch complete erected as per direction Cat III (D) 4 pole 440V 40 Amp.	2782.55	Two Thousand Seven Hundred Eighty Two Rupees And Fifty Five Paise Only	Ea	33390.6
151	3.00	Supplying and erecting approved make panel mounting type Digital Voltmeter having 3 digits LED display, 0 to 750 AC Volts range erected on existing panel board with all connection, wiring etc .with manufacturers calibration certificate.	1275.63	One Thousand Two Hundred Seventy Five Rupees And Sixty Three Paise Only	Ea.	3826.89
152	3.00	Supplying and erecting approved make panel mounting type Digital Ammeter having 3 digits LED display, external CT operated, calibrated for 0 to 1000 Amps suitable to operate on 500 Volt AC , erected on existing panel board with all connection, wiring etc .with manufacturers calibration certificate.	1558.43	One Thousand Five Hundred Fifty Eight Rupees And Forty Three Paise Only	Ea.	4675.29
153	3.00	Supplying and erecting Ammeter / Voltmeter selector switch for 3 phase AC Supply 500 V on existing panel board with necessary connections.	317.14	Three Hundred Seventeen Rupees And Fourteen Paise Only	Ea.	951.42
154	9.00	Providing & erecting L.T. Current Transformer with bar primary 50/5 to 1000/5 ratio 15 VA burden erected in existing CRCA box duly secured with insulating materials connected to the meter	274.72	Two Hundred Seventy Four Rupees And Seventy Two Paise Only	Ea.	2472.48
155	15.00	Supplying and erecting approved make suitable panel indicator LED type lamp, lens cover, complete erected with necessary connections.	43.43	Forty Three Rupees And Forty Three Paise Only	Ea.	651.45

156	8.00	Supplying and erecting LED approved make RECESSED DOWN LIGHT 18W, CCT of 3000K, Input Voltage 90-270 V, Power Factor 0.9, CRI > 90, System Efficiency > 80 Lumens per Watt, Aluminium Die Cast Heat Sink fixture, Optics Diffuser with White Surface Finish with control gear of same make ITEM CODE: Futura make FPPI1246 equivalent as per Selection by Architect and Engineer in Charge with erection as per guidelines of OEM manufacturer	2676.40	Two Thousand Six Hundred Seventy Six Rupees And Forty Paise Only	Ea.	21411.2
157	90.00	Supplying and erecting approved make LED PROFILE LIGHT, 20W/M, LED STRIP CCT of 3000K, Power of 24V, Lumens Output 100 Lumens per Watt, CRI >90, IP67, 20*20MM 90CRI IP67 ITEM CODE: Futura make FPPE2689 MAGE equivalent as per Selection by Architect and Engineer in Charge with erection as per guidelines of OEM manufacturer	3544.09	Three Thousand Five Hundred Forty Four Rupees And Nine Paise Only	Mtr.	318968.1
158	90.00	Supplying and erecting approved make 25X25 SURFACE EMPTY SECTION PROFILE ITEM CODE: Futura make HLP5994 equivalent as per Selection by Architect and Engineer in Charge with erection as per guidelines of OEM manufacturer	366.63	Three Hundred Sixty Six Rupees And Sixty Three Paise Only	Mtr.	32996.7
159	5.00	Supplying and erecting approved make 100W Driver, 90-264 V AC input and 24 V DC output, IP67 - SLIM - LPV LED POWER SUPPLY, Overload Protection, Overvoltage protection, ITEM CODE: HLP3004 as per Selection by Architect and Engineer in Charge with erection as per guidelines of OEM manufacturer	2612.85	Two Thousand Six Hundred Twelve Rupees And Eighty Five Paise Only	Ea.	13064.25
160	32.00	Supplying and erecting approved make UNDER WATER LIGHT, Power supply of 3W METPO TWO WAY, 99 degree beam Angle, CCT 3000K, CRI > 90, System Luminous Flux > 225 Lumens, System Efficiency > 75 Lumens per Watt, - CREE - SS FINISH,	8200.29	Eight Thousand Two Hundred Rupees And Twenty Nine Paise Only	Ea.	262409.28

		IP67, IK10 outdoor floor Recessed mounting type, >=55mm Dia, ITEM CODE: Futura make FPPE1435 METPO equivalent as per Selection by Architect and Engineer in Charge with erection as per guidelines of OEM manufacturer				
161	8.00	Supplying and erecting approved make UNDER WATER LIGHT, Power supply of 24W METPO one WAY, 110-degree beam Angle, CCT 3000K, CRI > 90, System Luminous Flux > 225 Lumens, System Efficiency >75 Lumens per Watt, - CREE - SS FINISH, IP68, IK10 outdoor floor Recessed mounting type, >=55mm Dia, ITEM CODE: Futura make FPPE1445 METPO equivalent as per Selection by Architect and Engineer in Charge with erection as per guidelines of OEM manufacturer	53393.55	Fifty Three Thousand Three Hundred Ninety Three Rupees And Fifty Five Paise Only	Ea.	427148.4
162	175.00	Supplying and erecting approved make SPIKE LIGHT, 3.5W NERA, 90-270 V,CCT 3000K - OSRAM LED, 31degree Beam Angle, CRI > 80, System Luminous Flux > 175 Lumens, System Efficiency >50 Lumens per Watt, Power Factor 0.9,IP65 Outdoor Type, Aluminium Die Cast Fixture with Optics Lens,278 mm height equivalent, ITEM CODE: Futura make FPPE726 NERA equivalent as per Selection by Architect and Engineer in Charge with erection as per guidelines of OEM manufacturer	3470.76	Three Thousand Four Hundred Seventy Rupees And Seventy Six Paise Only	Ea.	607383
163	23.00	Supplying and erecting approved make GRAZER LIGHT, Power Supply of 36W FLOED BUILDING UPLIGHTER, 8-degree beam Angle, CRI >80, System Luminous Flux > 3600 Lumens, System Efficiency >100 Lumens per Watt, Power Factor 0.9, IP66 Outdoor Type, IK08, Aluminium Die Cast Fixture with Optics Lens, CCT 3000K, Floor Surface mounted, OSRAM LED Source ITEM CODE: Futura make FPPE1454	24674.20	Twenty Four Thousand Six Hundred Seventy Four Rupees And Twenty Paise Only	Ea.	567506.6

		FLOED equivalent as per Selection by Architect and Engineer in Charge with erection as per guidelines of OEM manufacturer				
164	8.00	Supplying and erecting approved make Power Supply of 8W LEAF Wall Surface mounted Type Light, CRI >80, System Luminous Flux > 130 Lumens, System Efficiency >16 Lumens per Watt, Power Factor 0.9, IP65, Aluminium Die Cast Fixture with Frosted glass Optics, CCT 3000K, Floor Surface mounted ITEM CODE: Futura make FPPE729 LEAF equivalent as per Selection by Architect and Engineer in Charge with erection as per guidelines of OEM manufacturer	17353.82	Seventeen Thousand Three Hundred Fifty Three Rupees And Eighty Two Paise Only	Ea.	138830.56
165	100.00	Supplying and erecting approved make Power Supply of 8W BAMBOO BOLLARD Graphite Grey Powder Coating, UP+FRWD Type Light, CRI >80, System Luminous Flux > 180 Lumens, System Efficiency >23 Lumens per Watt, Power Factor 0.9, IP65, Aluminium Die Cast Fixture with Reflector Optics, CCT 3000K, Floor Surface mounted ITEM CODE: Futura make FPE735 BAMBOO equivalent as per Selection by Architect and Engineer in Charge with erection as per guidelines of OEM manufacturer	25480.79	Twenty Five Thousand Four Hundred Eighty Rupees And Seventy Nine Paise Only	Ea.	2548079
166	35.00	Supplying and erecting approved make Custom design 4 Mtr Pole, aluminium powder coated ITEM CODE: only pole of item FUTURA-1779- EPOCH equivalent as per Selection by Architect and Engineer in Charge with erection as per guidelines of OEM manufacturer	31163.55	Thirty One Thousand One Hundred Sixty Three Rupees And Fifty Five Paise Only	Ea.	1090724.25
167	150.00	Supplying and erecting approved make BOLLARD LIGHT,15W, 1650 Lumens,3000K, aluminium powder coated, 600mm ,Power Factor 0.9, System Efficiency >90 %, THD < 10%, IP65, Powder coated Aluminum with PC Diffuser Optical Cover, CCT	8188.07	Eight Thousand One Hundred Eighty Eight Rupees And Seven Paise Only	Ea.	1228210.5

		3000K, 125 mm base Plates, CRI >80 ITEM CODE: NOTION-1625 zest equivalent as per Selection by Architect and Engineer in Charge with erection as per guidelines of OEM manufacturer				
168	65.00	Supplying and erecting approved make Single arm bracket with LED street light 1x100W and Powder coated aluminum 4 metre height poles, Pipe Size 100 X 100 mm, 3000K, Aluminium powder coated, 4mtr height 11000 Lumens, aluminium powder coated, 600mm ,Power Factor 0.9, System Efficiency >90 %, THD < 10%, IP65, Powder coated Aluminum with PC Diffuser Optical Cover, CCT 3000K, 200 x 200 mm base Plates, CRI >80 ITEM CODE: NOTION-1719 GAMA PRO equivalent as per Selection by Architect and Engineer in Charge with erection as per guidelines of OEM manufacturer	42773.50	Forty Two Thousand Seven Hundred Seventy Three Rupees And Fifty Paise Only	Ea.	2780277.5
169	4.00	Supplying and erecting approved make double arm bracket with LED street light 2x100W and Powder coated aluminum 4 metre height poles, Pipe Size 100 X 100 mm, 3000K, Aluminium powder coated, 4mtr height 11000 Lumens, aluminium powder coated, 600mm ,Power Factor 0.9, System Efficiency >90 %, THD < 10%, IP65, Powder coated Aluminum with PC Diffuser Optical Cover, CCT 3000K, 200 x 200 mm base Plates, CRI >80 ITEM CODE: NOTION-1721 ANTENA PRO equivalent as per Selection by Architect and Engineer in Charge with erection as per guidelines of OEM manufacturer	51328.20	Fifty One Thousand Three Hundred Twenty Eight Rupees And Twenty Paise Only	Ea.	205312.8

170	35.00	Supplying and erecting approved make Smart Post Top lantern, Power Supply of 27 W, Warm white, Symmetrical Optics, Safety class I, Post-top for diameter 60 mm mounting device, Luminous Efficacy (rated) (Nom) 85.19 lm/W, Input Voltage 220 to 240 V, Power Factor (Fraction) 0.9, CRI >70, Ingress protection code IP65, CCT 3000 K, 2 KV Surge Protection, Luminous Flux 2300 lm, Aluminum die Cast housing, Acrylate Reflector material, Dark Grey, IP65, IK07, Acrylate Cover and Semi matt High Reflective optics Item code: PHILIPS-BGP161 LED2300/WW PSU 220-240V 7043 IN or equivalent as per selection by architect and EIC	19211.41	Nineteen Thousand Two Hundred Eleven Rupees And Forty One Paise Only	Ea.	672399.35
<b>Nine Crore Twenty Three Lakh Forty Seven Thousand Four Hundred Eighty Three Rupees And Fifty Two Paise Only</b>						<b>92347483.52</b>

I/We am / are willing to carry out the work

at..... % above/ below percent

(Should be written in figures and words) of the estimated rate mentioned above. Amount of my / our tender works out as under.

**\*\*Estimated amount: 9,23,47,483.52/-**

Put to Tender Rs.

Deduct.....% below Rs.

Net Rs.

In words .....

**\*\*Estimated amount: 9,23,47,483.52/-**

Put to Tender Rs.

Add.....% above Rs.

Total Rs.

In words:

**Nine Crore Twenty Three Lakh Forty Seven Thousand Four Hundred Eighty Three Rupees And Fifty Two Paise Only**

Notes 1 - All work shall be carried out as per Public Works Department Handbook and other specifications of Division or as directed.

Notes 2 - All the columns in Schedule should be filled in ink and the total of the entries in the last column should be struck by the contractor under his signature.

Notes 3 - Rates quoted include clearance of site (prior commencement of work and at its close) in all respects and hold good for work under all conditions, site, moisture, weather etc.

Notes 4 - The contractor shall exhibit board as for government circular no.

BDG/3277/1657 N dated-26/01/1997 S (M.GUJ) with detailed specification and details of work and amount involved at site without any payment as directed by engineer in charge.



Notes 5 - I/We hereby declared that, I/We have visited the site and fully acquainted myself yourselves with the local situation regarding materials and other factors pertaining to the work piece for submitting this tender.

Notes 6 - I/We hereby declare that, I/we have carefully studied condition of contract specification and other then tender documents of this work and agree to execute that same accordingly.

Notes 7 - The price bid shall be including all taxes, duties, levies, fees and other charges as per applicable taxes including service tax and label cess.

Notes 8 - The Credit of dismantled material shall be recovered from R.A. Bills

Notes 9 - Rate of each item of dismantled material must be as shown in credit item table. Minimum amount of credit item must be as per amount of credit item table. In case quoted tender amount higher than estimated amount then the credit item value shall be increased as per pro

Notes 10 -The Contractor shall exhibit a board with detailed specification and details of work as directed by the Engineer-In-Charge for which no extra payment shall be made.

Notes 11 -The labourcess will be deducted as per prevailing rules i.e. 1% of the work done.

Notes 12 - GST and Income tax TDS will be deducted at a source while making payments of bills

Notes 13 - In all R.C.C. Items in Rate Analysis Standard Cement Consumption has been taken as per Govt. G.R.: PRC-10/2017 Cement Consumption/16/C Date:11/05/2017 as stated in S.O.R. therefore in R.C.C. items where there is a change as per actual mix design the cost of difference of cement consumption have been deducted from the rate of original item at the rate of input rate mentioned in all the tender.

**Deputy Executive Engineer  
Shahibaug (R&B) Sub Division  
Ahmedabad**

**Executive Engineer  
Ahmedabad City (R&B) Division  
Ahmedabad**

**BILLING OF QUANTITIES PART: 2****Credit of Dismantled Material**

SCHEDULE -B						
Item No	Quantities Estimated But May Be More Or Less	Item Description	Estimated Rate		Unit	Total Amount According To Estimated Quantities
			Rate in Figure	Rate in Words		
Civil & Electrical Work						
171	8528.00	Steel	25.00	Twenty Five Rupees Only	Kg	213200.00
172	17	Brick Masonary	136.61	One Hundred Thirty Six Rupees And Sixty One Paise Only	Cmt	2322.37
173	140	Cost of old u/s 1.50 Sq.mm 3 core round PVC sheathed	3.08	Three rupees and eight paise only	mtr	431.20
174	300	Cost of old u/s 2 wire 6 sqmm	5.46	Five rupees and forty six paise only	mtr	1638.00
175	28	Cost of old u/s MCB SP	4.90	Four rupees and ninety paise only	Ea	137.20
176	28	Cost of old u/s street light 48w to 60w	237.40	Two hundred thirty seven rupees and forty paise only	Ea	6647.20
177	28	Cost of old u/s sintex box	23.35	Twenty three rupees and thirty five paise only	Ea	653.80
178	60	Cost of old u/s g.i pipe	7.50	Seven rupees and fifty paise only	mtr	450.00
179	28	Cost of old u/s street light polewith all asseccsory	423.40	Four hundred twenty three rupees and forty paise only	Ea.	11855.20
Two lakh thirty seven thousand three hundred thirty four rupees and ninety seven paise only						2,37,334.97
Nine crore twenty one lakh ten thousand one hundred forty eight rupees and fifty five paise only						92110148.55

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