

# RAJKOT MUNICIPAL CORPORATION SOLID WASTE MANAGEMENT

**CONSTRUCTION OF ELEVATED SEMI-CLOSED REFUSE TRANSFER STATION AT MOTAMAVA, RAJKOT**

**E- TENDER**

**TENDER NOTICE NO : RMC/SWM/2023-24/21**

<b>VOLUME: IV</b>
<b>PRICE BID</b>

<b>DATE OF DOWNLOADING OF ONLINE TENDER</b>	12/10/2023, 16:00 Hour
<b>WEB SITE</b>	www.rmc.nprocure.com
<b>PRE BID MEETING</b>	27/09/2023 up to 11:30 hrs. at Office of the environment engineer, Room No. 03, 3 <sup>rd</sup> floor, Rajkot Municipal Corporation, Dhebar Road, Rajkot.
<b>LAST DATE OF SUBMISSION OF ONLINE TENDER</b>	12/10/2023, 18:00 Hour
<b>DATE OF SUBMISSION OF TECHNICAL BID, TENDER FEES, EMD AND OTHER DOCUMENTS IN HARD COPY</b>	17/10/2023, 18:00 Hour
<b>Verification of submitted documents (EMD, e-tender fee, Etc.)</b>	From 19/10/2023, 16:00 hours Onwards
<b>Opening of online tender</b>	From 20/10/2023, 16:30 hours Onwards
<b>ESTIMATED AMOUNT</b>	Rs. 9,98,86,660/-
<b>DOCUMENT FEES</b>	Rs .15000/-

**TO BE SUBMITTED TO:**

**Environment Engineer,  
Rajkot Municipal Corporation.  
Dr. Ambedkar Bhavan, Dhebar Road  
Rajkot-360001 (GUJARAT)**

**RAJKOT MUNICIPAL CORPORATION**  
**SOLID WASTE MANAGEMENT**

**NAME OF WORK:** -CONSTRUCTION OF ELEVATED SEMI-CLOSED REFUSE TRANSFER STATION AT MOTAMAVA, RAJKOT

I / We \_\_\_\_\_ the undersigned do hereby tender for carrying out the work described in the schedule below subject to the condition annexed.

Should this tender be accepted I / we hereby agree to abide by and to fulfill all the terms and provisions of specifications and conditions of conduct annexed hereto so far as they are applicable and default thereof forfeit and pay to the Municipal Corporation the sum of money mentioned in the said conditions.

The earnest money deposited by me / us with tender may be forfeited to the said Municipal Corporation if I / we do not deposit the full amount of security deposit in accordance with the clauses (1) of the said conditions of contract, otherwise the said sum of Rs. **9,98,86,660/-** shall be retained by the Municipal Corporation as any account of such security as foresaid.

**Seal**

**Signature of the contractor.**

**Date:**

## **SCHEDULE B**

### **MEMORANDUM SHOWING ITEMS OF WORKS TO BE CARRIED OUT:**

#### **PREAMBLE**

- 1) The Schedule B shall be read in conjunction with the Instruction to Bidders, General and Special Conditions of Contract, Scope of Services and Specifications.
- 2) The quantities given in the Schedule B are estimated and provisional and are given to provide a common basis for bidding. The basis of payment will be actual quantities of work ordered and carried out and valued at the rates and prices tendered in the Schedule B, where applicable and otherwise at such rates and prices as the Engineer may fix within the terms of Contract.
- 3) The rates and prices tendered in the Schedule B shall, except in so far as it is otherwise provided under the contract, include all equipment, construction plant, labour, supervision, materials, erection, maintenance, testing of input material delivered, profit, taxes and duties together with all general risks, liabilities and obligations set out and implied in the Contract. The Contractor shall provide all the equipment related to the project.
- 4) The percentage in schedule 'B' must be given in words and figures.
- 5) The whole cost of complying with the provisions of the Contract shall be included in the items provided in the Schedule B and where no rates are provided the cost shall be deemed to be distributed among the rates and prices entered for the related Items of Work.

<b>RAJKOT MUNICIPAL CORPORATION</b>					
<b>SOLID WASTE MANAGEMENT</b>					
<b>ABSTRACT FORM</b>					
<b>NAME OF WORK :- CONSTRUCTION OF ELEVATED SEMI-CLOSED REFUSE TRANSFER STATION AT MOTAMAVA, RAJKOT</b>					
<b>Sr. No.</b>	<b>Item Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Rate</b>	<b>Estimated Cost</b>
				<b>in Rs.</b>	<b>In Rs.</b>
	<b><u>Sub Estimate No. 1 :- Transfer Station</u></b>				
	<b><u>A. Platform</u></b>				
1	Excavation of foundation in soft morrum, soil of sand from 0.0 mtr. To 1.50 mtr. Depth including lifting and laying in designated place as instructed.	458.00	cu.mt.	96.60	44242.80
2	Excavation of foundation in hard moram from 0.0 mtr. To 1.50 mtr. Depth including lifting and laying in designated place as instructed.	339.00	cu.mt.	103.50	35086.50
3	Excavation of Foundation in Soft Rock from 0.0 mtr. to 1.50 mtr depth including lifting and laying in 90 mtr. lead area as instructed	243.00	cu.mt.	220.80	53654.40
4	Excavation of foundation in hard moram from 1.51 mtr. To 3.00 mtr. Depth including lifting and laying in designated place as instructed.	146.00	cu.mt.	117.30	17125.80
5	Excavation of foundation in soft rock from 1.51 mtr. To 3.00 mtr. Depth including lifting and laying in designated place as instructed.	339.00	0.00	255.30	86546.70
7	Filling of Plinth with using excavated usefull material partly and remaining murrum to be brought from out side in layer of 0.23 m thick including murrum and sprinkling of water, compaction etc. complete	485.00	cu mt	147.00	71295.00
8	Filling of Plinth in layers of 0.23 m thick including murrum and sprinkling of water, compaction etc. complete	1400.00	cu mt	279.00	390600.00
9	Removal of Excavated Stuff within RMC limit as directed by Engineer-in-Charge	1280.00	cu mt	171.00	218880.00
10	Foundation filling with CC work in proportion of 1:2:4 using 1.5 cm to 2.0 cm aggregate including Raming, Curing etc.	158.00	cu.mt.	3913.20	618285.60
11	Foundation filling with CC work in proportion of 1:3:6 using 1.5 cm to 2.0 cm aggregate including Raming, Curing etc.	14.00	cu.mt.	3360.00	47040.00

12	providing and laying Ready Mix cement concrete M-250 and curing complete including cost form work and excluding the cost of reinforcement for reinforced concrete work in FOUNDATION FOOTING base of columns and Mass concrete including providing & mixing plasticiser and Water Proofing Chemical in cement concrete including rate of labour material etc.	333.00	cu mt	5569.00	1854477.00
13	Providing and laying Ready Mix cement concrete M-250 and finishing smooth with curing etc. complete including cost of formwork and excluding the cost of reinforcement for reinforced concrete work in COLUMN UP TO ALL FLOOR all heights for any cross sectional area including providing & mixing plasticiser and Water Proofing Chemical in cement including scaffolding etc. and complete rate of labour material etc.	184.00	cu mt	6096.00	1121664.00
14	Providing and laying Ready Mix cement concrete M-250 and finishing smooth with curing etc. complete including cost of form work and excluding the cost of reinforcement for BEAMS having any cross sectional area for all floors all heights including scaffolding etc complete including providing & mixing plasticiser and Water Proofing Chemical in cement concrete including labour and material etc.	46.00	cu mt	6156.00	283176.00
15	Foundation filling with Rubble Cement Mortar in proportion of 1:6 Cement:Mortar	202.00	cu mt	1493.00	301586.00
16	Providing and laying Ready Mix cement concrete M-250 and finishing smooth with curing etc. complete including cost of form work and excluding the cost of reinforcement for R.C.C. work in BOTTOM SLAB having thickness of 10 cm and up to 15cm Complete including providing & mixing plasticiser and Water Proofing Chemical in cement concrete including labour and material etc.	132.00	cu mt	5297.00	699204.00

17	Providing and laying Ready Mix cement concrete M-250 and finishing smooth with curing etc. complete including cost of form work and excluding the cost of reinforcement for BEAMS having any cross sectional area for all floors all heights including scaffolding etc complete including providing & mixing plasticiser and Water Proofing Chemical in cement concrete including labour and material etc.	152.00	cu.mt.	6156.00	935712.00
18	Providing and laying Ready Mix cement concrete M-250 and finishing smooth with curing etc. complete including cost of form work and excluding the cost of reinforcement for R.C.C. work in SLAB having thickness of 10 cm and up to 15cm Complete including providing & mixing plasticiser and Water Proofing Chemical in cement concrete including labour and material etc.	185.00	cu.mt.	5875.00	1086875.00
19	Providing and laying Ready Mix cement concrete M-250 and finishing smooth with curing etc. complete including cost of form work and excluding the cost of reinforcement for RCC STAIR CASE for all floors all heights all cross section area including scaffolding etc complete including providing & mixing plasticiser and Water Proofing Chemical in cement concrete including labour and material etc.	6.00	cu.mt.	5886.00	35316.00
20	Providing and laying controlled cement concrete M-200 and finishing smooth with curing etc. complete including cost of form work and excluding the cost of reinforcement for R.C.C. LINTEL/ RUNNER WORK having thickness of 10 cm and up to 15cm for all floors all heights including scaffolding etc complete including labour and material etc.	11.00	cu mt	5538.00	60918.00
21	providing and laying Ready Mix cement concrete M-250 and curing complete including cost form work and excluding the cost of reinforcement for reinforced concrete work in WALL base of columns and Mass concrete including providing & mixing plasticiser and Water Proofing Chemical in cement concrete including rate of labour material etc.	82.00	cu.mt.	7102.00	582364.00
22	Supplying, Cutting, Beding, Binding and Hooking and binding with wire for RCC work Tor steel TMT round bar including all cost (Fe-500/500D)	139200.00	Kg.	57.00	7934400.00

23	Brick Masonary work using conventional burnt clay building bricks having crushing strength not less than 35 kg/sq cm foundation and plinth and all above in super-sub structure for all for including scaffolding including labour and material costing in cement mortar 1:6 (1, cement and 6, fine sand)	182.00	cu.mt.	4196.00	763672.00
24	Providing and constructing half brick work using common burnt clay build bricks having crushing strength not less than 35 KG/SQ CM in foundation and plinth and up to floor two level in cement mortar 1:4 (1 cement : 4 fine sand) (B) Conventional	516.35	Sqmt.	411.00	212219.85
25	Providing up to floor two level precast concrete Ventilation Block as per drawing. 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 6 mm nominal size) reinforced with 1.60mm dia mild steel wire including roughening cleaning, fixing and finishing in cement mortar 1:3 and curing complete. 100 mm thick	68.00	Sqmt.	534.60	36352.80
26	Cement Plaster Work 1.2 cm average thick using Cement:Mortar in proportion of 1:3 rough cast (without Niru Finishing) for All Floor and for any height.	3128.00	cu mt	168.00	525504.00
27	20mm thick Sand Face Cement Plaster Work in which 1 plaster in proportion of 1:3 and 2nd plaster in proportion of 1:2 using Cement:Mortar with Spot finishing etc. complete (Note: Before carrying out Plaster work on RCC, required tipping work should be carried out as instructed)	1574.00	cu mt	217.00	341558.00
28	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 and sand papered smooth.	473.00	Sqmt.	47.41	22424.93
29	Plastic Imulsion Paint (Two coats) (Asian Paint, ICI, Dulux, Nerolac, Berger etc. of approved type) (without Prime Coat)	776.00	Sqmt.	91.00	70616.00
30	Apex Color work on Outer side of Wall (Two coats) (with Base Coat)	1574.00	Sqmt.	99.00	155826.00

31	Providing and applying one coat Epoxy Phenolic primer of DFT 50 micron and two coats of Epoxy Phenolic coating of DFT 100 microns each or any other equivalent epoxy coating system to all concrete surfaces exposed to atmosphere in including cost of material, labour, transportation, scaffolding and preparing the surfaces by cleaning, washing, brushing, sand/grit blasting etc. complete. (Paint shall be got approved from Engineer and tested from approved laboratory)	1574.00	cu mt	198.40	312281.60
32	Supply & fixing of Vitrified flooring work (1st quality)	319.00	Sqmt.	564.00	179916.00
33	Supply & fixing of Vitrified for skirting work (1st quality) width upto 10 cm.	14.00	Sqmt.	83.00	1162.00
34	Providing and laying Ceramic tiles 6mm thick in flooring on a bed of 12mm thick cement mortar 1:3 (1-cement : 3-coarse sand ) finishing with flush pointing in Colour cement.	25.00	Sqmt.	669.90	16747.50
35	Supply & Fixing of Glazed tiles (1st Quality) of required size in Cement Roga and joints to be filled with white cement after 12mm rough plaster in proportion of 1:3	73.00	Sqmt.	426.00	31098.00
36	Supplying and fixing alluminium frame 62.50 x 25 mm. size and 37.50 x 18mm size shutter with sliding frame 2-track of standard compeny etc. complete.	15.00	Sqmt.	4088.00	61320.00
37	Providing and fixing standard extruded section of size 63 mm x 38.10 mm x 1.20 mm(jindal section no- 2434 w wt. .643 kg/Rmt.) wth Colour AnodiesAlluminium frame for VENTILATION 5 mm thick frosted glass as detail etc. complete for ventilations	2.00	Sqmt.	1373.45	2746.90
38	Providing & fixing approved quality & designed rolling shutters with necessary top cover, fittings, single coat red lead, double coat silver or oil paint (with bearing)	36.00	Sqmt.	2056.00	74016.00
39	Supply, Fixing & Polishing of Kota Stone work thickness 20-25 mm to be fixed in Lime:Mortar 1:2 and liquid Cement and as instructed	18.00	sqmt	791.00	14238.00
40	Supply & Fixing of Granite Stone (Telephone Black Color) on wall after rough cast Cement Plaster in proportion of 1:3 and fixing grainage in Cement Paste	15.00	sqmt	2502.00	37530.00



41	Providing and fixing stone slab with table rubbed, edges rounded and polished of size 90x50 cm deep and 1.8 cm thick, fixed in urinal partitions by cutting a chase of appropriate width with chase cutter and embedding the stone in the chase with epoxy grout or with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6 mm nominal size) as per direction of Engineer-in-charge and finished smooth. Granite Stone of approved shade	3.00	sqmt	3542.85	10628.55
42	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters: 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	22.00	Sqmt	2015.75	44346.50
43	Supply & Fixing of Laminates 1mm of Approved Quality	44.00	Sqmt	1148.00	50512.00
44	Extra rate for Cromium plated brass fittings for Door	22.00	Sqmt	388.00	8536.00
45	Grill work for doors - windows etc. as per design on site with fitting & fixing.	225.00	kg	81.00	18225.00
46	Iron work as per drawing and instruction including all	252.00	kg	86.00	21672.00
47	providing, fabricating, erecting and placing in position stainless steel pipe railing made of Hollow tubes, channels, plates etc. (304 grade) including cutting welding and bolting wherever necessary including accessories fixing hardware. All welded joints to be griended and cleaned and finished as satin finish including buffing. All ss to 304 grade	100.00	Kg	460.00	46000.00
48	Providing and Fixing of colour coated aluminium-zinc alloy sheets (Galvalume ) of ASTM – A792 Grade D, Coating AZ-150 with 0.5mm thickness, 0.90m to 1.20m width and length up to 12m with factory cut and fixing to the roof polymer coated galvanized hex head self drilling screws with integral washers and EPDM seals fasteners for support for sheet etc., complete as directed including cost of sheets For roofing, with necessary fixtures and accessories, hangers, skylights etc complete as per drawing and design..	384.00	Sqmt.	793.10	304550.40

49	Providing & fixing welded in built up section for M.S. angle of size 75 X 75 X 6 mm at vertical portion of column for protection including fabrication as directed etc with all material & labour, complete on Platform area Column corners Wt of M.S. Angle 75 X 75 X 6 is 6.8 Kg/m	6650.00	Kg.	86.00	571900.00
50	Providing & fixing steel work welded in built up structural M.S. Sections, Plates etc. for Platform, MS ladder, inserts including fabrication as shown in the drg. as directed etc with all material & labour, complete	18500.00	Kg	86.00	1591000.00
51	Enamel painting on door/window, iron door, iron grill or woodwork two coat with Primer	1015.00	Sqmt	113.00	114695.00
52	Providing and Casting Controlled cement concrete M 250 proportions of ingredients as per mix design by weigh batching for pavement wearing coat 75 mm thick including floor finishing with a floating of neat cement complete. TREMIX VD SYSTEM including providing and fixing channels as per required levels and slope, leveling poured concrete between channels with Double Beam screed vibrators removing excess water using VD Pump finishing the surface with power trowel and power floater including cutting the groove of size 5mm x 10mm at required distance and providing and filling the same with bitumen as per practices etc. complete at all levels Excluding steel reinforcement.	121.00	cu mt	5093.70	616337.70
53	Providing and fixing wash down water closet (European type WCpan) with sit cover including jet spray and stop cock	7.00	Nos.	2230.00	15610.00
54	Providing and fixing Urinal of approved quality including connection with trap and with integral longitudinal flush pipe and brass screw down stop tap. (A) 15mm dia. (A) Squating plate pattern white earthenware 550mm x 300mm.	5.00	Nos.	1269.47	6347.35
55	White porcelain wash basin 560/410mm Indian make c.i. bracket with fitting chromium plated topes 25cm plastic waste pipe and 12mm pillar cock with comp.	4.00	Nos.	1397.00	5588.00
56	Providing & Fixing Brass cock screw down bolt type 15mm dia. fitting with fixing.	3.00	Nos.	250.00	750.00
57	Providing and fixing pillar tap, capstan head, screw down high pressure with screws, shanks and back nuts. (i) 15mm dia.	3.00	Nos	360.70	1082.10

58	flushing valve brass cromium plated push cock of handle type with flushing supply and fixing	7.00	Nos.	690.00	4830.00
59	Brass wheel valve 50mm dia. fitting with fixing.	5.00	Nos.	1570.00	7850.00
60	Brass wheel valve 40mm dia. fitting with fixing.	5.00	Nos.	940.00	4700.00
61	Brass wheel valve 25mm dia. fitting with fixing.	5.00	Nos.	640.00	3200.00
62	Providing laying and jointing in true line and level 50mm dia. U.P.V.C. Pipe ( SCH- 40) for cold water including fittings make PRINCE / SUPREME / ASTRAL / FINOLEX or equivalent as approved by Engineer In Charge. Pipe shall be fixed on the wall with the help of clamp at every two metre C/C or shall be cancelled as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.	45.00	R mt	228.61	10287.45
63	Providing laying and jointing in true line and level 40mm dia. U.P.V.C. Pipe ( SCH- 40) for cold water including fittings make PRINCE / SUPREME / ASTRAL / FINOLEX or equivalent as approved by Engineer In Charge. Pipe shall be fixed on the wall with the help of clamp at every two metre C/C or shall be cancelled as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.	35.00	R mt	173.03	6056.05
64	Providing laying and jointing in true line and level 32mm dia. U.P.V.C. Pipe ( SCH- 40) for cold water including fittings make PRINCE / SUPREME / ASTRAL / FINOLEX or equivalent as approved by Engineer In Charge. Pipe shall be fixed on the wall with the help of clamp at every two metre C/C or shall be cancelled as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.	30.00	R mt	139.00	4170.00

65	Providing laying and jointing in true line and level 25mm dia. U.P.V.C. Pipe ( SCH- 40) for cold water including fittings make PRINCE / SUPREME / ASTRAL / FINOLEX or equivalent as approved by Engineer In Charge. Pipe shall be fixed on the wall with the help of clamp at every two metre C/C or shall be cancelled as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.	40.00	R mt	107.29	4291.60
66	Providing laying and jointing in true line and level 15mm dia. U.P.V.C. Pipe ( SCH- 40) for cold water including fittings make PRINCE / SUPREME / ASTRAL / FINOLEX or equivalent as approved by Engineer In Charge. Pipe shall be fixed on the wall with the help of clamp at every two metre C/C or shall be cancelled as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.	25.00	R mt	84.87	2121.75
67	Providing, fixing, jointing, testing and commissioning of PVC pipe with rubber ring joint confirming to IS : 13592, and confirming to IS : 4985 (Pipe Class III - 6 kg / sq.cm) cut to required lengths including all necessary fittings and specials such as bends, junctions offsets, access pieces (plain or door). Fixing at wall / ceiling level supported by G.I. clamps, hangers etc. duly epoxy coated. Cutting, chases/holes in floors / walls / slab. The piping should be complete with P or S trap as req. (A) 110mm dia.	90.00	R mt	221.10	19899.00
68	Providing, fixing, jointing, testing and commissioning of PVC pipe with rubber ring joint confirming to IS : 13592, and confirming to IS : 4985 (Pipe Class III - 6 kg / sq.cm) cut to required lengths including all necessary fittings and specials such as bends, junctions offsets, access pieces (plain or door). Fixing at wall / ceiling level supported by G.I. clamps, hangers etc. duly epoxy coated. Cutting, chases/holes in floors / walls / slab. The piping should be complete with P or S trap as req. (B) 75mm dia.	40.00	R mt	107.75	4310.00

69	Providing, fixing, jointing, testing and commissioning of PVC pipe with rubber ring joint confirming to IS : 13592, and confirming to IS : 4985 (Pipe Class III - 6 kg / sq.cm) cut to required lengths including all necessary fittings and specials such as bends, junctions offsets, access pieces (plain or door). Fixing at wall / ceiling level supported by G.I. clamps, hangers etc. duly epoxy coated. Cutting, chases/holes in floors / walls / slab. The piping should be complete with P or S trap as req. (C) 50mm dia.	20.00	R mt	50.75	1015.00
70	suply and fixing 110 mm PVC cowl	3.00	Nos.	75.00	225.00
71	suply and fixing 75 mm PVC cowl	3.00	Nos.	58.00	174.00
72	Providing SW gully trap CI grating brick masonry chamber and water tight Ci cover with frame of 300mmx300mm size inside with standard weight (B) 150mmx100mm size P or R type	2.00	Nos.	1254.75	2509.50
73	Providing and fixing PVC SWR Nahni trap IS 14735 for drain-100mm diameter with jali of the following nominal diameter of self cleansing design with C.I screed down or hinged grating including the cost of cutting and making good the walls.	7.00	Nos.	376.95	2638.65
74	Providing and laying (to level or slope) and jointing with stuff mixture of cement mortar in proportion 1:1 silt glazed stoneware pipes following normal diameters incl. testing of pipes and joints complete(B) 150mm stoneware pipes	15.00	R mt	245.70	3685.50
75	Providing and laying (to level or slope) and jointing with stuff mixture of cement mortar in proportion 1:1 silt glazed stoneware pipes following normal diameters incl. testing of pipes and joints complete(B) 100mm stoneware pipes	15.00	R mt	172.20	2583.00
76	Providing and laying CC 1:5:10(1,cement : 5,fine sand : 10graded stone aggregate 40 mm normal size) Bedding for Stoneware Pipes of following internal diameter with necessary formwork and curing complete (A) 150mm pipes	15.00	Rmt	157.50	2362.50
77	Providing and laying CC 1:5:10(1,cement : 5,fine sand : 10graded stone aggregate 40 mm normal size) Bedding for Stoneware Pipes of following internal diameter with necessary formwork and curing complete (A) 100mm pipes	15.00	R mt	93.66	1404.90

78	Constructing brick masonry chambrs for underground C I Inspection Chamber and bends with bricks having crushing strength not less than 35kg/sq cm in C.M. 1:5 C I cover with frame (light duty)455x610mm internal dimention total weight of cover with frame to be not less than 38kg RCC top slab with CC 1:2:4 mix (1,cement : 2,coarse sand: 4,graded aggregate 20 mm size) foundation concrete 1:5:10 inside plaster 15mm thick with C.M. 1:3 finish smooth with finishing coat of neat cement on walls and bed concrete etc (inside dimentions 500mm x 700mm x & 450mm deep) for single pipe lines with one of two inlets.	2.00	Nos.	3408.30	6816.60
79	Constructing Manhole with R.C.C. top slab in 1:2:4 mix (1-cement :2-coarse sand : 4-graded stone aggregate 20mm nominal size) foundation concrete 1:3:6 mix (1-cement : 3- coarse sand :6-Brick bats 40 + 50mm size) inside plastering 15mm thick with Cement Mortar 1:5 (1-Cement : 5-coarse sand) finished with a floating coat of neat cement and making channels in cement concrete 1:2:4 mix (1-Cement :2-Coarse sand :4-stone aggregate 20mm nominal size) finished smooth complete including curing and festing (i) Inside size 900mm x 1200mm and 1.5M. deep including C.I. cover with frame size 560mm diameter total weight of cover and frame to be not less than 128 kgs. (Wt. of cover 64 Kg. and Wt. of frame 64 Kg.)(A) With 230mm thick walls of brick msonry using brick having crushing strength not less than 35Kg. / Sq.cm. in Cement Mortar 1:5 (1- Cement: 5-Coarse sand) (2)B type depth 1.50 Metre for 150mm diameter sewer.	1.00	Nos.	17001.60	17001.60
80	Providing erecting and fixing double coated syntex equivalent PVC (ISI) mark water tank of required capacity each with all necessary fittings and connectionetc comp. on teraace	5000.00	Ltrs	4.61	23050.00
81	providing and fixing 600mmx450mm bevelled edge mirror of superior glass mounted of 0.6 mm thick A C sheet or plywood sheet and fixed to wooden pluge with CP brass screws and washers	4.00	Nos.	611.10	2444.40

82	Providing and fixing PTMT liquid soap container 109mm wide, 125mm high and 112mm distance from wall of standard shape with bracket of the same material with snap fitting of approved quality and colour weighing not less than 105 gms.	4.00	Nos.	146.30	585.20
83	RCC precast frame with supply, fitting, fixing with complete as per specification 10ton size 550/550/90mm.	2.00	Nos.	466.00	932.00
84	RCC precast cover with supply, fitting, fixing with complete as per specification 10ton size 550/550/90mm.	2.00	Nos.	891.00	1782.00
				<b>Total Amount</b>	<b>22906384.68</b>
<b>B. Ramp</b>					
1	Excavation of foundation in soft morrum, soil of sand from 0.0 mtr. To 1.50 mtr. Depth including lifting and laying in designated place as instructed.	224.00	cu.mt.	96.60	21638.40
2	Excavation of foundation in hard moram from 0.0 mtr. To 1.50 mtr. Depth including lifting and laying in designated place as instructed.	522.00	cu.mt.	103.50	54027.00
3	Excavation of Foundation in Soft Rock from 0.0 mtr. to 1.50 mtr depth including lifting and laying in 90 mtr. lead area as instructed	233.00	cu.mt.	220.80	51446.40
4	Excavation of foundation in hard moram from 1.51 mtr. To 3.00 mtr. Depth including lifting and laying in designated place as instructed.	140.00	cu.mt.	117.30	16422.00
5	Excavation of foundation in soft rock from 1.51 mtr. To 3.00 mtr. Depth including lifting and laying in designated place as instructed.	326.00	cu.mt.	255.30	83227.80
6	Filling of Plinth with using excavated usefull material partly and remaining murrum to be brought from out side in layer of 0.23 m thick including murrum and sprinkling of water, compaction etc. complete	661.00	cu mt	147.00	97167.00
7	Filling of Plinth in layers of 0.23 m thick including murrum and sprinkling of water, compaction etc. complete	300.00	cu mt	279.00	83700.00
8	Removal of Excavated Stuff within RMC limit as directed by Engineer-in-Charge	783.00	cu mt	171.00	133893.00
9	Foundation filling with Rubble Cement Mortar in proportion of 1:6 Cement:Mortar	29.00	cu mt	1493.00	43297.00
10	Foundation filling with CC work in proportion of 1:2:4 using 1.5 cm to 2.0 cm aggregate including Raming, Curing etc.	59.00	cu.mt.	3913.20	230878.80

11	Foundation filling with CC work in proportion of 1:3:6 using 1.5 cm to 2.0 cm aggregate including Raming, Curing etc.	19.00	cu.mt.	3360.00	63840.00
12	providing and laying Ready Mix cement concrete M-250 and curing complete including cost form work and excluding the cost of reinforcement for reinforced concrete work in FOUNDATION FOOTING base of columns and Mass concrete including providing & mixing plasticiser and Water Proofing Chemical in cement concrete including rate of labour material etc.	274.00	cu mt	5569.00	1525906.00
13	Providing and laying Ready Mix cement concrete M-250 and finishing smooth with curing etc. complete including cost of formwork and excluding the cost of reinforcement for reinforced concrete work in COLUMN UP TO ALL FLOOR all heights for any cross sectional area including providing & mixing plasticiser and Water Proofing Chemical in cement including scaffolding etc. and complete rate of labour material etc.	91.00	cu mt	6096.00	554736.00
14	Providing and laying Ready Mix cement concrete M-250 and finishing smooth with curing etc. complete including cost of form work and excluding the cost of reinforcement for PLINTH BEAMS having any cross sectional area for all floors all heights including scaffolding etc complete including providing & mixing plasticiser and Water Proofing Chemical in cement concrete including labour and material etc.	83.00	cu mt	6156.00	510948.00
15	Providing and laying Ready Mix cement concrete M-250 and finishing smooth with curing etc. complete including cost of form work and excluding the cost of reinforcement for R.C.C. work in BOTTOM SLAB having thickness of 10 cm and up to 15cm Complete including providing & mixing plasticiser and Water Proofing Chemical in cement concrete including labour and material etc.	25.00	cu mt	5297.00	132425.00



16	Providing and laying Ready Mix cement concrete M-250 and finishing smooth with curing etc. complete including cost of form work and excluding the cost of reinforcement for BEAMS having any cross sectional area for all floors all heights including scaffolding etc complete including providing & mixing plasticiser and Water Proofing Chemical in cement concrete including labour and material etc.	120.00	cu.mt.	6156.00	738720.00
17	Providing and laying Ready Mix cement concrete M-250 and finishing smooth with curing etc. complete including cost of form work and excluding the cost of reinforcement for R.C.C. work in SLAB having thickness of 10 cm and up to 15cm Complete including providing & mixing plasticiser and Water Proofing Chemical in cement concrete including labour and material etc.	235.00	cu.mt.	5875.00	1380625.00
18	providing and laying Ready Mix cement concrete M-250 and curing complete including cost form work and excluding the cost of reinforcement for reinforced concrete work in WALL base of columns and Mass concrete including providing & mixing plasticiser and Water Proofing Chemical in cement concrete including rate of labour material etc.	43.00	cu.mt.	7102.00	305386.00
19	Supplying, Cutting, Bedding, Binding and Hooking and binding with wire for RCC work Tor steel TMT round bar including all cost (Fe-500/500D)	111300.00	Kg.	57.00	6344100.00
20	Providing and fixing pre-cast concrete kerb stone of gray cement based concrete block 30cm length,30cm height and 15cm thick of M250 grade concret as per approved design and including excavation for fixing in proper line and level,filling the joint with C:M 1:3 (1cement:3fine sand) etc complete.	191.00	Rmt.	327.17	62489.47
21	Cement Plaster Work 1.2 cm average thick using Cement:Mortar in proportion of 1:3 rough cast (without Niru Finishing) for All Floor and for any height.	2682.00	sqmt	168.00	450576.00
22	Apex Color work on Outer side of Wall (Two coats) (with Base Coat)	439.00	sqmt	99.00	43461.00

23	Providing and applying one coat Epoxy Phenolic primer of DFT 50 micron and two coats of Epoxy Phenolic coating of DFT 100 microns each or any other equivalent epoxy coating system to all concrete surfaces exposed to atmosphere in Anticrash barrier including cost of material, labour, transportation, scaffolding and preparing the surfaces by cleaning, washing, brushing, sand/grit blasting etc. complete. (Paint shall be got approved from Engineer and tested from approved laboratory)	2682.00	sqmt	198.40	532108.80
24	Distempeing (Two coats) with oil bound washable distemper of approved brand and manufacture and of required shade on wall surfaces to give an even shade, over and including a priming coat with alkali resistance primer of approved brand after thoroughly brushing the surface and other foreign matter and also including preparing the surface even and sand parpered smooth.	2682.00	sqmt	49.00	131418.00
25	Providing & fixing approved quality & designed rolling shutters with necessary top cover, fittings, single coat red lead, double coat silver or oil paint (with bearing)	90.00	sqmt	2056.00	185040.00
26	Enemal painting on door/window, iron door, iron grill or woodwork two coat with Primer	191.00	sqmt	113.00	21583.00
27	Applying and providing Expansion joint sealing System on 100 mm vide joint including cleaning of exansion joint by mechanical means provision of adhesive and flexible membrane with required bond length as per menufracturer specification and 4mm thick alluminium strip covering with one side sloted and bolted with suitable system, inclusive of all manpower, machinery and material as per specification and as directed.	8.00	sqmt	5575.20	44601.60
28	Iron work as per drawing and instruction including all	2859.00	Kg	86.00	245874.00
29	Providing and fixing premoulded compressible filler board in black colour confirming to MoRT&H Specifications (Clause 1015), having minimum density 95kg/cum. non-staining with less than 1% water absorption & compression recovery of 93% minimum as per specification for 20 mm wide expansion joint including cutting to required size and shape at all levels	10.00	sqmt	804.61	8046.10

	etc.complete as directed.				
30	Providing and Casting Controlled cement concrete M 250 proportions of ingredients as per mix design by weigh batching for pavement wearing coat 75 mm thick including floor finishing with a floating of neat cement complete. TREMIX VD SYSTEM including providing and fixing channels as per required levels and slope, leveling poured concrete between channels with Double Beam screed vibrators removing excess water using VD Pump finishing the surface with power trowel and power floater including cutting the groove of size 5mm x 10mm at required distance and providing and filling the same with bitumen as per practices etc. complete at all levels Excluding steel reinforcement.	88.00	Cum	5093.70	448245.60
31	Providing PVC 100 mm diameter water spouts including necessary iron grating as per drawings	50.00	NO.	105.00	5250.00
32	Providing, laying and jointing in true line and level 75mm diameter U.P.V.C (Type B) conforming to IS 13592-1992 with one end plain and other end socketed with rubber ring, & fittings conforming to ISI 14735-1999 of approved make for drainage system pipe line, pipe shall be jointed with each other with rubber lubricant, pipe shall be fixed on wall using of PVC clamp of the size 75 mm diameter x 114 mm length x 145 mm height at every 2000 mm center to center or shall be concealed in walls as directed including necessary fittings such as bends, shoes etc. including testing of pipes and joints and jointed with adhesive solvent cement including cost of all materials.	250.00	RMT	435.25	108812.50
33	Providing, laying and jointing in true line and level 110 diameter U.P.V.C (Type B) conforming to IS 13592-1992 with one end plain and other end socketed with rubber ring, & fittings conforming to ISI 14735-1999 of approved make for drainage system pipe line, pipe shall be jointed with each other with rubber lubricant, pipe shall be fixed on wall using of PVC clamp of the size 110 mm diameter x 149 mm length x 145 mm height at every 2000 mm center to center or shall be concealed in walls as directed including necessary fittings such as bends, shoes etc. including testing of pipes and joints and jointed with adhesive solvent cement including cost of all materials.	250.00	RMT	551.25	137812.50

				<b>Total Amount</b>	<b>14797701.97</b>
<b>Electrical Work</b>					
1	Point wiring for Light / Bell with 2-1.5 sq.mm & earthwire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multistrand copper wires, in following type of pipe to be erected concealed in/ on surface on wall/ceiling complete with 6A Modular type switch / bell push & accessories and earth continuity of following type, erected on PVC / Metallic box, single mounting base frame covered with textured/metallic front plate modules erected on / in wall / ceiling as per pipe erected, with necessary Lamp holder/ceiling rose / H.D.Connector as directed.(a) with medium class Rigid PVC pipe and accessories Cat. III	112.00	No.	463.00	51856.00
2	Point wiring for FAN with 2-1.5 sq.mm & earthwire of 1.5 sq.mm (Green) both are of .ISI marked 1.1 KV Grade FRLS PVC insulated multistrand copper wires, in following type of pipe to be erected concealed in / flushed on wall/ceiling complete with 6A Modular type switch and hum free EME four or more step type electronic fan regulator with separately mounted and accessories with earth continuity of following type erected on PVC / Metallic box, single mounting base frame covered with textured/metallic front plate modules erected on / in wall / ceiling as per pipe erected. with necessary ceiling rose / H.D.Connector as directed. (a) with medium class Rigid PVC pipe and accessories Cat. III	16.00	No.	663.00	10608.00
3	Point wiring for Individual Plug with & earth wire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires up to 10 mtr length, in below type of pipe erected complete with Modular type switch & 5 pin Plug erected on PVC / Metallic/Wooden box covered with appropriate front plate modules erected on / in wall / ceiling as per pipe erected with following type of accessories. [II] For 16A Plug with 2-2.5 sq.mm Cu. Wire (a) with medium class Rigid PVC pipe and accessories Cat. III	11.00	No.	742.00	8162.00

4	Point wiring for Looped Plug with 6A Modular type switch & 5 pin socket erected on PVC / Metallic box, single mounting base frame covered with textured / metallic front plate modules erected on / in wall / ceiling with following type accessories Cat. III	16.00	No.	266.00	4256.00
5	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 & Clamps with following dia of pipes, in approved manner as directed (b) 25 mm	700.00	Mtr	36.00	25200.00
6	Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected concealed in /flushed on wall/ceiling, with 1.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size (a) with medium class Rigid PVC pipe and accessories (a) 2 wire 1.5 sq. mm	750.00	Rmt.	68.00	51000.00
7	Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected concealed in /flushed on wall/ceiling, with 1.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size (a) with medium class Rigid PVC pipe and accessories (b) 2 wire 2.5 sq. mm	940.00	Rmt.	90.00	84600.00
8	Providing and erecting XLPE(IS:7098)(I)-88 ISI armoured cable multistrand 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. (C) 4 core 6 Sq. mm	700.00	Mtr	592.00	414400.00
9	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 (A)50 mm outer dia	700.00	Rmt.	72.00	50400.00

10	Providing & erecting Switch board for Computer or electric apparatus consisting of following items in single board erected on PVC / Metal board with 3 mm thick PC (Polycarbonate) / Acrylic sheet erected as directed 1 no. 6A/16A universal plug-switch combined. 4 nos. 6A Switch 4 nos. 6A 5 pin Plug [B] For Modular Type Accessories Cat. III	6.00	Nos	1262.00	7572.00
11	Supplying and erecting LED indoor fittings with LEDs of wattage 0.2 Watt to 0.5 Watt assembled on single MCPCB, with housing used as a heat sink shall be made of thick sheet Steel conforming to IS: 513/CRCA polyester powder coated and high U.V. & corrosion resistance with diffuser and/or Polycarbonate optics with company mark/name 120 to 300 V, Power Factor more than 0.9, THD < 10 %, CCT 4000 K to 6500K, Uniformity ratio >0.7, Luminaire efficacy > 85 lumens/watt, LED driver efficiency > 85 % as per Approved make LED used for luminaire. (Each fitting required LM-79 & LM-80 Certificates) (A) Tube Light with integral/non-integral driver. (iv) 22-24 Watts, Surge - 2KV, IP-20, conventional 4 feet Cat-III	112.00	Nos	480.00	53760.00
12	(D) LED Panel Light with provision for Plane front frame with translucent cover fixed to housing complete. (f) upto 36 watts, 600 x 600 mm, Surge- 2KV	12.00	Nos	2325.00	27900.00
13	(C) Square/ Circular Surface/Recessed Mounted Downlight with provision for spring loaded mounting clips complete. (c) 20-24 watts, Surge-4 KV Cat-III	6.00	No.	980.00	5880.00
14	Supplying and erecting LED Flood light fittings with High power White LEDs wattage of 1Watt 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 company mark/name engraved or embossed 120 to 300 V, Power Factor more than 0.95, THD < 10 %, CCT 5000 K to 5700K, Uniformity ratio >0.45, Luminaire efficacy > 85 lumens/watt. LED driver efficiency > 85 %. as per approved make LED used for luminaire. ( Each fittings required LM-79 & LM-80 certificates) (B) Flood Light (IP-65), Surge-4KV (b) Above 48-	8.00	No.	7250.00	58000.00

	60 Watts Cat-III				
15	Providing & erecting Approved make Power Saving Ceiling Fan of decorative type with double ball bearing ISI mark with Condenser 230 volt A.C. 50 Hz 1200 mm sweep complete having 3 blades with aluminium blades with , canopy & 30 cms. down rod erected with 24/ 0.2, 3 core flexible wire with earthing.(Make & Sample shall be approved by Engineer in charge)	16.00	No.	2510.00	40160.00
16	Supplying and erecting 19 / 20 mm. nominal bore Medium Class M.S. Pipe down rod erected duly painted for fan complete with necessary 24/ 0.20, 3 core flexible wire with earthing.	16.00	No.	125.00	2000.00
17	Supplying & erecting fan hook box of 10 mm M.S. round bar bounded to the RCC bars up to 50mm length each side and pierced through a 16 Gauge M.S. box / Heavy Duty PVC box complete erected concealed in Ceiling with necessary finishing.	16.00	No.	125.00	2000.00
18	Providing 2.5mm.thick laminated acrylic sheet to cover the fan hook or Fan box.	16.00	No.	20.00	320.00
19	Providing and erecting Sheet Steel powder coated MCB distribution board - flush / surface mounted fitted with busbar, neutral link, earth bar and DIN rail, Conforms to IS 8623-1 & 3, IEC 61439-1 & 3 without MCB to house appropriate nos. of MCBs.(The DBs should be used of same company of MCB to be used) suitable for (N) Three phase 8 way SS Double door for horizontal single phase outgoing	4.00	No.	3986.00	15944.00
20	Miniature circuit breaker single pole 6A to 32A 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 Cat.III	36.00	No.	130.00	4680.00
21	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 (c)63 Amp. Cat.III	4.00	No.	860.00	3440.00
22	Approved make ELCBs / RCCBs conforming to IS: 12640 and having sensitivity of 30 mA and Short Circuit withstand capacity of 6 KA and suitable for operation on 3 phase and neutral 415V. having characteristic of quick action & tripping with all advance feature & do not incorporate any electronic component for following Max. rating	4.00	No.	3550.00	14200.00

	erected as directed.(iii) 63 Amps. FP				
23	Supplying and Erecting Of L.E.D. type High bay fixture having Power Consumption of following watts with, Input Voltage 110 - 290 V.AC with full efficiency, Power Factor > 0.9 with 50/60 HZ, CCVC LED Driver used for maximum power saving, Best Quality Aluminium alloy housing and aluminium Dome for better heat dissipation, CCT Cool white (6000K), CRI 80, Beam angle > 120 degrees, working temperature -20 deg c to +55 deg c, Body IP 65 (A) 70 to 90 watts	10.00	Sqmt.	6140.00	61400.00
				<b>Total</b>	<b>997738.00</b>
<b>Sub Estimate No. 2 :- Compound Development</b>					
<b>A. Compound Wall</b>					
1	Clearing and grubbing road land including uprooting rank vegetation grass bushes,shrubs,sapling and trees girth up to 300 mm removal of stumps of trees cut earlier and disposal of unserviceable materials (C) By mechanical means in area of light jungle	2.00	Hectare	32040.85	64081.70
2	Excavation of foundation in soft morrum, soil of sand from 0.0 mtr. To 1.50 mtr. Depth including lifting and laying in designated place as instructed.	189.00	cu.mt.	96.60	18257.40
3	Excavation of foundation in hard moram from 0.0 mtr. To 1.50 mtr. Depth including lifting and laying in designated place as instructed.	390.00	cu.mt.	103.50	40365.00
4	Excavation of Foundation in Soft Rock from 0.0 mtr. to 1.50 mtr depth including lifting and laying in 90 mtr. lead area as instructed	278.00	cu.mt.	220.80	61382.40
5	Excavation of foundation in hard moram from 1.51 mtr. To 3.00 mtr. Depth including lifting and laying in designated place as instructed.	167.00	cu.mt.	117.30	19589.10
6	Excavation of foundation in soft rock from 1.51 mtr. To 3.00 mtr. Depth including lifting and laying in designated place as instructed.	390.00	cu.mt.	255.30	99567.00
7	Filling of plinth with using excavated usefull material partly and remaining murrum to be brought from out side in layer of 0.23 m thick including murrum and sprinkling of water , compaction etc. complete.	556.00	cu.mt.	147.00	81732.00
8	Filling of Plinth in layers of 0.23 m thick including murrum and sprinkling of water, compaction etc. complete	600.00	cu.mt.	279.00	167400.00
9	Removal of Excavated Stuff and laying within RMC limit as directed by Engineer-in-	856.00	cu.mt.	171.00	146376.00



	Charge				
10	Foundation filling with CC work in proportion of 1:2:4 using 1.5 cm to 2.0 cm aggregate including Raming, Curing etc.	56.00	cu.mt.	3913.20	219139.20
11	Foundation filling with CC work in proportion of 1:3:6 using 1.5 cm to 2.0 cm aggregate including Raming, Curing etc.	18.00	cu.mt.	3360.00	60480.00
12	providing and laying Ready Mix cement concrete M-250 and curing complete including cost form work and excluding the cost of reinforcement for reinforced concrete work in FOUNDATION FOOTING base of columns and Mass concrete including providing & mixing plasticiser and Water Proofing Chemical in cement concrete including rate of labour material etc.	218.00	cu mt	5569.00	1214042.00
13	Providing and laying Ready Mix cement concrete M-250 and finishing smooth with curing etc. complete including cost of formwork and excluding the cost of reinforcement for reinforced concrete work in COLUMN UP TO ALL FLOOR all heights for any cross sectional area including providing & mixing plasticiser and Water Proofing Chemical in cement including scaffolding etc. and complete rate of labour material etc.	43.00	cu mt	6096.00	262128.00
14	Providing and laying Ready Mix cement concrete M-250 and curing complete including cost form work and excluding the cost of reinforcement for reinforced concrete work in WALL base of columns and Mass concrete including providing & mixing plasticiser and Water Proofing Chemical in cement concrete including rate of labour material etc.	152.00	cu.mt.	7102.00	1079504.00
15	Providing and laying Ready Mix cement concrete M-250 and finishing smooth with curing etc. complete including cost of form work and excluding the cost of reinforcement for PLINTH BEAMS having any cross sectional area for all floors all heights including scaffolding etc complete including providing & mixing plasticiser and Water Proofing Chemical in cement concrete including labour and material etc.	38.00	cu mt	6156.00	233928.00
16	CC work 1:2:4 for copping using aggregate of size 10-20 mm, centring, curing, finishing etc. complete (without reinforcement)	19.00	cu mt	4176.00	79344.00

17	Supplying, Cutting, Bedding, Binding and Hooking and binding with wire for RCC work Tor steel TMT round bar including all cost (Fe-500/500D)	59,000.00	Kg	57.00	3363000.00
18	Brick Masonary work using conventional burnt clay building bricks having crushing strength not less than 35 kg/sq cm foundation and plinth and all above in super-sub structure for all for including scaffolding including labour and material costing in cement mortar 1:6 (1, cement and 6, fine sand)	257.00	cu mt	4196.00	1078372.00
19	20mm thick Sand Face Cement Plaster Work in which 1 plaster in proportion of 1:3 and 2nd plaster in proportion of 1:2 using Cement:Mortar with Spot finishing etc. complete (Note: Before carrying out Plaster work on RCC, required tipping work should be carried out as instructed)	2,904.00	sqmt	217.00	630168.00
20	Decorative Groove Work in Cement Plaster	1,307.00	R mt	33.00	43131.00
21	Finishing wall with weather proof exterior emulsion paint on wall surface (two coats) to give an required shape even shade after thoroughly brushing the surface to remove all dirt, and remains of loose powdered materials. etc complete (with Base Coat)	2,904.00	sqmt	99.00	287496.00
				<b>Total</b>	<b>9249482.80</b>
<b>B. Main Gate</b>					
1	Excavation of foundation in soft morrum, soil of sand from 0.0 mtr. To 1.50 mtr. Depth including lifting and laying in designated place as instructed.	14.00	cu.mt.	96.60	1352.40
2	Excavation of foundation in hard moram from 0.0 mtr. To 1.50 mtr. Depth including lifting and laying in designated place as instructed.	31.00	cu.mt.	103.50	3208.50
3	Excavation of Foundation in Soft Rock from 0.0 mtr. to 1.50 mtr depth including lifting and laying in 90 mtr. lead area as instructed	23.00	cu.mt.	220.80	5078.40
4	Excavation of foundation in hard moram from 1.51 mtr. To 3.00 mtr. Depth including lifting and laying in designated place as instructed.	14.00	cu.mt.	117.30	1642.20
5	Excavation of foundation in soft rock from 1.51 mtr. To 3.00 mtr. Depth including lifting and laying in designated place as instructed.	31.00	cu.mt.	255.30	7914.30
6	Excavation of foundation in Hard rock from 1.51 mtr. To 3.00 mtr. Depth including lifting and laying in designated place as instructed.	12.00	cu.mt.	531.30	6375.60

7	Filling of plinth with using excavated usefull material partly and remaining murrum to be brought from out side in layer of 0.23 m thick including murrum and sprinkling of water , compaction etc. complete.	45.00	cu.mt.	147.00	6615.00
8	Filling of Plinth in layers of 0.23 m thick including murrum and sprinkling of water, compaction etc. complete	100.00	cu.mt.	279.00	27900.00
9	Removal of Excavated Stuff and laying within RMC limit as directed by Engineer-in-Charge	78.00	cu.mt.	171.00	13338.00
10	Foundation filling with CC work in proportion of 1:2:4 using 1.5 cm to 2.0 cm aggregate including Raming, Curing etc.	5.00	cu.mt.	3913.20	19566.00
11	Foundation filling with CC work in proportion of 1:3:6 using 1.5 cm to 2.0 cm aggregate including Raming, Curing etc.	2.00	cu.mt.	3360.00	6720.00
12	providing and laying Ready Mix cement concrete M-250 and curing complete including cost form work and excluding the cost of reinforcement for reinforced concrete work in FOUNDATION FOOTING base of columns and Mass concrete including providing & mixing plasticiser and Water Proofing Chemical in cement concrete including rate of labour material etc.	19.00	cu mt	5569.00	105811.00
13	Providing and laying Ready Mix cement concrete M-250 and finishing smooth with curing etc. complete including cost of formwork and excluding the cost of reinforcement for reinforced concrete work in COLUMN UP TO ALL FLOOR all heights for any cross sectional area including providing & mixing plasticiser and Water Proofing Chemical in cement including scaffolding etc. and complete rate of labour material etc.	8.00	cu mt	6096.00	48768.00
14	Providing and laying Ready Mix cement concrete M-250 and finishing smooth with curing etc. complete including cost of form work and excluding the cost of reinforcement for PLINTH BEAMS having any cross sectional area for all floors all heights including scaffolding etc complete including providing & mixing plasticiser and Water Proofing Chemical in cement concrete including labour and material etc.	4.00	cu mt	6156.00	24624.00

15	Providing and laying Ready Mix cement concrete M-250 and finishing smooth with curing etc. complete including cost of form work and excluding the cost of reinforcement for SLAB BEAMS having any cross sectional area for all floors all heights including scaffolding etc complete including providing & mixing plasticiser and Water Proofing Chemical in cement concrete including labour and material etc.	5.00	cu mt	6156.00	30780.00
16	Providing and laying Ready Mix cement concrete M-250 and finishing smooth with curing etc. complete including cost of form work and excluding the cost of reinforcement for R.C.C. work in SLAB having thickness of 10 cm and up to 15cm Complete including providing & mixing plasticiser and Water Proofing Chemical in cement concrete including labour and material etc.	3.00	cu mt	5875.00	17625.00
17	Providing and laying controlled cement concrete M-200 and finishing smooth with curing etc. complete including cost of form work and excluding the cost of reinforcement for R.C.C. LINTEL/ RUNNER WORK having thickness of 10 cm and up to 15cm for all floors all heights including scaffolding etc complete including labour and material etc.	1.00	cu mt	5538.00	5538.00
18	Supplying, Cutting, Bedding, Binding and Hooking and binding with wire for RCC work Tor steel TMT round bar including all cost (Fe-500/500D)	5,300.00	Kg	57.00	302100.00
19	Brick Masonary work using conventional burnt clay building bricks having crushing strength not less than 35 kg/sq cm foundation and plinth and all above in super-sub structure for all for including scaffolding including labour and material costing in cement mortar 1:6(1, cement and 6, fine sand)	6.00	cu mt	4196.00	25176.00
20	20mm thick Sand Face Cement Plaster Work in which 1 plaster in proportion of 1:3 and 2nd plaster in proportion of 1:2 using Cement:Mortar with Spot finishing etc. complete (Note: Before carrying out Plaster work on RCC, required tipping work should be carried out as instructed)	61.00	sqmt	217.00	13237.00
21	Cement Plaster Work 1.2 cm average thick using Cement:Mortar in proportion of 1:3 rough cast (without Niru Finishing) for All Floor and for any height.	49.00	sqmt	168.00	8232.00

22	Decorative Groove Work in Cement Plaster	31.00	R mt	33.00	1023.00
23	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 and sand papered smooth.	49.00	sqmt	47.41	2323.09
24	Finishing wall with weather proof exterior emulsion paint on wall surface (two coats) to give an required shape even shade after thoroughly brushing the surface to remove all dirt, and remains of loose powdered materials.etc complete (with Base Coat)	61.00	sqmt	75.60	4611.60
25	Providing, fixing and Lettering Stainless steel Font " RAJKOT MUNICIPAL CORPORATION - REFUSE TRANSFER STATION" (height 12") on FRONT TOP beam as per drawing. at elevation portion as directed by Engineer in charge.	48.00	Nos	828.00	39744.00
26	Supply & fixing of Vitrified flooring work (1st quality)	4.00	Sqm	564.00	2256.00
27	Supply & fixing of Vitrified for skirting work (1st quality) width upto 10 cm.	8.00	R.mt.	83.00	664.00
28	Supply, Fixing & Polishing for Granite Flooring work 18mm thick & 200 mm Base of Cement:Mortar in proportion of 1:3 and Spread Cement Slurry on Bed With Quarter Round Edge.	2.00	sqmt	2578.00	5156.00
29	Supply & Fixing of Granite Stone (Telephone Black Color) on wall after rough cast Cement Plaster in proportion of 1:3 and fixing grainage in Cement Paste	5.00	sqmt	2502.00	12510.00
30	Enemal painting on door/window, iron door, iron grill or woodwork two coat with base Coat as directed by EIC/ consultant.	25.00	sqmt	113.00	2825.00
31	Supplying and fixing alluminium frame 62.50 x 25 mm. size and 37.50 x 18mm size shutter with sliding frame 2-track of standard compeny etc. complete.	3.00	sqmt	4088.00	12264.00
32	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters: 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	3.00	sqmt	2015.75	6047.25

33	Supply & Fixing of Laminates 1mm of Approved Quality	5.00	sqmt	1148.00	5740.00
34	Extra rate for Cromium plated brass fittings for Door	3.00	sqmt	388.00	1164.00
35	Grill work for doors - windows etc. as per design on site with fitting & fixing.	52.00	kg	81.00	4212.00
36	Iron work as per drawing and instruction including all	2,325.00	kg	86.00	199950.00
37	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc. consisting of following operations.(a) Applying and grouting slurry coat of neat cement using 2.75 kg/sqm. of cement admixed with proprietary water proofing compound confining to IS 2645 over the R.C.C. slab including cleaning the surface before treatment (b) Laying cement concrete using broken brick bats 25mm to 100mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) proprietary water proofing compound confirming to IS 2645 over 20 mm thick layer of cement mortar 1:5 (1 cement: 5 coarse sand) admixed with admixed with proprietary water proofing compound confirming to IS 2645 to required slope and treating similar surface to adjoined walls up to 300 mm. height including rounding of junctions of walls and slabs.(c) After two days of proper curing, applying a second coat of cement slurry admixed with proprietary water proofing compound conforming to IS:2645	18.00	sqmt	502.95	9053.10

38	Providing, laying and jointing in true line and level 110 diameter U.P.V.C (Type B) conforming to IS 13592-1992 with one end plain and other end socketed with rubber ring, & fittings conforming to ISI 14735-1999 of approved make for drainage system pipe line, pipe shall be jointed with each other with rubber lubricant, pipe shall be fixed on wall using of PVC clamp of the size 110 mm diameter x 149 mm length x 145 mm height at every 2000 mm center to center or shall be concealed in walls as directed including necessary fittings such as bends, shoes etc. including testing of pipes and joints and jointed with adhesive solvent cement including cost of all materials.	12.00	Rmt	551.25	6615.00
<b>Electrical Work</b>					
39	Point wiring for Light / Bell with 2-1.5 sq.mm & earthwire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multistrand copper wires, in following type of pipe to be erected concealed in/ on surface on wall/ceiling complete with 6A Modular type switch / bell push & accessories and earth continuity of following type, erected on PVC / Metallic box, single mounting base frame covered with textured/metallic front plate modules erected on / in wall / ceiling as per pipe erected, with necessary Lamp holder/ceiling rose / H.D.Connector as directed.(a) with medium class Rigid PVC pipe and accessories Cat. III	7.00	Pt.	463.00	3241.00
40	Point wiring for FAN with 2-1.5 sq.mm & earthwire of 1.5 sq.mm (Green) both are of .ISI marked 1.1 KV Grade FRLS PVC insulated multistrand copper wires, in following type of pipe to be erected concealed in / flushed on wall/ceiling complete with 6A Modular type switch and hum free EME four or more step type electronic fan regulator(2M) with separately mounted and accessories with earth continuity of following type erected on PVC / Metallic box, single mounting base frame covered with textured/metallic front plate modules erected on / in wall / ceiling as per pipe erected. with necessary ceiling rose / H.D.Connector as directed. (a) with medium class Rigid PVC pipe and accessories Cat. III	1.00	Pt.	663.00	663.00

41	Point wiring for Looped Plug with 6A Modular type switch & 5 pin socket erected on PVC / Metallic box, single mounting base frame covered with textured / metallic front plate modules erected on / in wall / ceiling with following type accessories Cat. II	2.00	Pt.	266.00	532.00
42	Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected concealed in /flushed on wall/ceiling, with 1.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size (c) 3 wire 1.5 sq. mm	20.00	Rmt	84.00	1680.00
43	(b) 2 wire 2.5 sq. mm	80.00	Rmt	90.00	7200.00
44	Providing and erecting Sheet Steel powder coated MCB distribution board - flush / surface mounted fitted with busbar, neutral link, earth bar and DIN rail, Conforms to IS 8623-1 & 3, IEC 61439-1 & 3 without MCB to house appropriate nos. of MCBs.(The DBs should be used of same company of MCB to be used) suitable for (A) single phase incoming and horizontal single phase outgoing (a) single door (IP-30) (ii)6 way	1.00	Ea.	679.00	679.00
45	Miniature circuit breaker single pole 6A to 32A 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 Cat.III	3.00	Ea.	130.00	390.00
46	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 (A) 6 to 32 Amp.	1.00	Ea.	350.00	350.00
47	Approved make ELCBs / RCCBs conforming to IS: 12640 and having sensitivity of 30 mA and Short Circuit withstand capacity of 6 KA and suitable for operation on single phase 240 V. having characteristic of quick action & tripping with all advance feature & do not incorporate any electronic component. for following Max. rating erected as directed (i) 25 Amps.DP CAT-III	1.00	Ea.	2300.00	2300.00



48	Supplying and erecting LED indoor fittings with LEDs of wattage 0.2 Watt to 0.5 Watt assembled on single MCPCB, with housing used as a heat sink shall be made of thick sheet Steel conforming to IS: 513/CRCA polyester powder coated and high U.V. & corrosion resistance with diffuser and/or Polycarbonate optics with company mark/name 120 to 300 V, Power Factor more than 0.9, THD < 10 %, CCT 4000 K to 6500K, Uniformity ratio >0.7, Luminaire efficiency > 85 lumens/watt, LED driver efficiency > 85 % CREE / OSRAM / PHILIPS Lumileds / NICHIA / SEOUL/Bridgelux(U.S.A.) make LED used for luminaire. (Each fitting required LM-79 & LM-80 Certificates) (A) Tube Light with integral/ non-integral driver (c) 16-20 Watts, Surge - 2KV, IP-20, 4 feet Cat-III	3.00	Ea.	760.00	2280.00
49	Supplying and erecting LED street light/Flood light fittings with high power LEDs wattage of 1watt and above assembled on single MCPCB, efficiency more than 130lm/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 company mark/name engraved or embossed 120 to 300V, power factor more than 0.95, THD<10%, CCT 5000K to 5700K, Uniformity ratio>0.45, Luminaire efficiency>85 lm/W. LED driver efficiency>85%. CREE/OSRAM/PHILIPS Lumileds/NICHIA/SEOUL/BridgeLux (U.S.A.) make LED used for Luminaire. (Each fittings required LM-79 & LM-80 certificates). (D) Post Top Latern LED fitting Comprises of Copper dust finish cast aluminum spigot and spun aluminum canopy fixed with opal polycarbonate, pipe arrangement for vertical mounting, open construction driver and accessories wired upto terminal block. (a) 40 Watts Cat-III	4.00	Ea.	6245.00	24980.00
				<b>Total</b>	<b>1042054.44</b>
<b>C. Kerbing</b>					
1	Excavation of foundation in soft morrum, soil of sand from 0.0 mtr. To 1.50 mtr. Depth including lifting and laying in designated place as instructed.	73.00	cu.mt.	96.60	7051.80

2	Excavation of foundation in hard moram from 0.0 mtr. To 1.50 mtr. Depth including lifting and laying in designated place as instructed.	73.00	cu.mt.	103.50	7555.50
3	Filling of plinth with using excavated usefull material partly and remaining murrum to be brought from out side in layer of 0.23 m thick including murrum and sprinkling of water , compaction etc. complete.	438.00	cu.mt.	147.00	64386.00
4	Providing and spreading and mixing loam or clay soil evenly over excavated area and levelling the same after clods etc.	1,216.00	cu.mt.	200.00	243200.00
5	Removal of Excavated Stuff and laying within RMC limit as directed by Engineer-in-Charge	73.00	cu.mt.	171.00	12483.00
6	Foundation filling with CC work in proportion of 1:2:4 using 1.5 cm to 2.0 cm aggregate including Raming, Curing etc.	8.00	cu.mt.	3913.00	31304.00
7	Providing and fixing pre-cast concrete kerb stone of gray cement based concrete block 30cm length,30cm height and 15cm thick of M250 grade concret as per approved design and including excavation for fixing in proper line and level,filling the joint with C:M 1:3 (1cement:3fine sand) etc complete.	487.00	Rmt	327.17	159331.79
8	Providing, laying and jointing in true line and level 110 diametre U.P.V.C (Type B) conforming to IS 13592-1992 with one end plain and other end socketed with rubber ring, & fittings conforming to ISI 14735-1999 of approved make for drainage system pipe line, pipe shall be jointed with each other with rubber lubricant, pipe shall be fixed on wall using of PVC clamp of the size 110 mm diametre x 149 mm length x 145 mm heigh at every 2000 mm center to center or shall be concealed in walls as directed including necessary fittings such as bends, shoes etc. including testing of pipes and joints and jointed with adhesive solvent cement including cost of all materials.	487.00	Rmt	551.25	268458.75
				<b>Total</b>	<b>793770.84</b>
<b><u>D. Storm Drain / Sewerage / Water Supply</u></b>					
1	Excavation of foundation in soft morrum, soil of sand from 0.0 mtr. To 1.50 mtr. Depth including lifting and laying in designated place as instructed.	243.00	cu.mt.	96.60	23473.80
2	Excavation of foundation in hard moram from 0.0 mtr. To 1.50 mtr. Depth including lifting and laying in designated place as	567.00	cu.mt.	103.50	58684.50

	instructed.				
3	Excavation of Foundation in Soft Rock from 0.0 mtr. to 1.50 mtr depth including lifting and laying in 90 mtr. lead area as instructed	405.00	cu.mt.	220.80	89424.00
4	Filling of plinth with using excavated usefull material partly and remaining murrum to be brought from out side in layer of 0.23 m thick including murrum and sprinkling of water , compaction etc. complete.	567.00	cu.mt.	147.00	83349.00
5	Removal of Excavated Stuff and laying within RMC limit as directed by Engineer-in-Charge	648.00	cu.mt.	171.00	110808.00
6	Foundation filling with CC work in proportion of 1:2:4 using 1.5 cm to 2.0 cm aggregate including Raming, Curing etc.	9.00	cu.mt.	3913.00	35217.00
7	Brick Masonary work using conventional burnt clay building bricks having crushing strength not less than35 kg/sq cm foundation and plinth and all above in super-sub structure for all for including scaffolding including labour and material costing in cement mortar 1:6(1, cement and 6, fine sand)	20.00	Rmt	4196.00	83920.00
8	CC work 1:1.5:3 for RCC footing using aggregate of size 10-20 mm, centring, curing, finishing etc. complete (without reinforcement)	2.00	cu.mt.	4862.00	9724.00
9	CC work 1:1.5:3 for Partition, Parsdment, railling etc. using aggregate of size 10-20 mm, centring, curing, finishing etc. complete (without reinforcement)	8.00	cu.mt.	6395.00	51160.00
10	Supplying, Cutting, Beding, Binding and Hooking and binding with wire for RCC work Tor steel TMT round bar including all cost (Fe-500/500D)	1,978.00	Kg.	57.00	112746.00
11	Cement Plaster 12 mm thick using Cement:Mortar in proportion 1:3 with Niru Finishing curing, etc. complete	323.00	Sqmt.	168.00	54264.00
12	R.C.C. Pipe NP-2 class pipe, supplied with collars and complete including laying, jointing, curing at line level and grade, along with necessary vata (Cement: Mortar in 1:1) 200mm dia of NP-2 Pipe	250.00	Rmt.	257.00	64250.00

13	R.C.C. IS Pipe NP-3 class pipe having standard length as per IS with collar joint, all tax, insurance, transportation, loading and unloading with arriving at the store or site and doing necessary inspection along with supply work and necessary vata (Cement: Mortar in 1:1) and complete including laying, joiting, courting with requierd in line level of NP-3 Class pipe 300mm Dia.	350.00	Rmt.	855.00	299250.00
14	Providing and laying in trenches galvanised mild steel tubes (Medium grade) of the following nominal bore, and tube fitting (Earthwork in trenches to be measured and paid for separately)(E) 65mm	350.00	Rmt.	573.30	200655.00
15	Making connection of galvanised Mild steel distribution branch with galvanised mild steel main 50mm to 80mm nominal bore by providing and fixing tee including cutting and threading the pipes complete.	10.00	Each	591.15	5911.50
16	Supply and Fixing of Gunmetal full way valve with ISI- 778 mark Of any ISI mark Approved brand. (E) 65mm	10.00	Each	2558.00	25580.00
17	Constructing Manhole with R.C.C. top slab in 1:2:4 mix (1-cement :2-coarse sand : 4-graded stone aggregate 20mm nominal size) foundation concrete 1:3:6 mix (1-cement : 3- coarse sand :6-Brick bats 40 + 50mm size) inside plastering 15mm thick with Cement Mortar 1:4 (1-Cement : 4-coarse sand) finished with a floating coat of neat cement and making channels in cement concrete 1:2:4 mix (1-Cement :2-Coarse sand :4-stone aggregate 20mm nominal size) finished smooth complete including curing and festing (i) Inside size 1200mm x 1500mm and 1.5M. deep (A) With 230mm thick walls of brick msonry using brick having crushing strength not less than 35Kg. / Sq.cm. in Cement Mortar 1:4 (1- Cement: 4-Coarse sand) (1) A type depth 1.00 Metre for 150 to 500 mm diameter sewer.	10.00	Nos.	6368.00	63680.00
18	Extra rate for constructing B.B. masonry for every additional depth of 1.01 to 1.50 M.	3.00	Rmt.	6052.00	18156.00

19	Constructing Manhole with R.C.C. top slab in 1:2:4 mix (1-cement :2-coarse sand : 4-graded stone aggregate 20mm nominal size) foundation concrete 1:3:6 mix (1-cement : 3- coarse sand :6-Brick bats 40 + 50mm size) inside plastering 15mm thick with Cement Mortar 1:4 (1-Cement : 4-coarse sand) finished with a floating coat of neat cement and making channels in cement concrete 1:2:4 mix (1-Cement :2-Coarse sand :4-stone aggregate 20mm nominal size) finished smooth complete including curing and festing (i) Inside size 1500mm and 4.00M. deep (A) With 230mm thick walls of brick msonry using brick having crushing strength not less than 35Kg. / Sq.cm. in Cement Mortar 1:4 (1- Cement: 4-Coarse sand) (1) B type depth 1.50 Metre for 150 to 600 mm diameter sewer.	10.00	Nos.	12589.00	125890.00
20	Extra rate for constructing B.B. masonry for every additional depth of 1.51 to 4.00 M.	10.00	Rmt.	9934.00	99340.00
21	Providing and fixing precast circular manhole cover of 600 mm dia and 20 ton capacity	20.00	Nos.	1360.00	27200.00
22	Providing and fixing precast circular manhole frame of 600 mm dia and 20 ton capacity	20.00	Nos.	450.00	9000.00
23	RCC precast cover with supply, fitting, fixing with complete as per specification 10 ton size 700/700/90mm.	24.00	Nos.	1179.00	28296.00
24	RCC precast frame with supply, fitting, fixing with complete as per specification 10 ton size 700/700/90mm.	24.00	Nos.	776.00	18624.00
25	RCC precast coverframe with jali supply, fitting, fixing with complete as per specification 10 ton size 1000/700/90mm.(without frame)	20.00	Nos.	1526.00	30520.00
26	RCC Precast frame with supply, fitting, fixing with complete as per specification 10 Ton size 000/700/90mm.(with beam)	24.00	Nos.	891.00	21384.00
				Total	1750506.80
<b>E. RCC Pavement</b>					
<b>Note :- Total 13205 Sqmt Calculated RCC Area deducting Platform and other Component Area.</b>					
1	Excavation of Foundation in Hard Murrum from 0.0 mtr. to 1.50 mtr depth including lifting and laying in 90 mtr. lead area as instructed	2,800.00	cu.mt.	103.50	289800.00
2	Filling of Plinth in layers of 0.23 m thick including murrum and sprinkling of water, compaction etc. complete	19,600.00	cu.mt.	279.00	5468400.00

3	Providing and laying 150 mm thick Granular sub-base in one layer by providing ( Grade-I) , Crushed B T materials of 53 mm to 26.50 mm @ 35 %, 26.50 mm to 4.75 mm @ 45 %, Below 2.36 mm @ 20 % ) having C.B.R. not less than 30%, as per table 402 of MORTH gradation including leveling the material at site of work ,mixing and spreading into grade and camber , watering and consolidation at OMC with Vibratory roller including cost of material, labour etc complete	1,701.00	cu.mt.	639.00	1086939.00
4	Providing and laying, Spreading compacting graded stone aggregate to wet mix maccadam 150 mm thick as per MORT&H and specification including premixing material with water at OMC. In mechanical mix plant carriage of mix material by tippers to site, laying in uniform layers with paver in sub base/ base course on well prepared surface and compacting with vibratory roller to achieve the desire density.	1,701.00	cu.mt.	970.00	1649970.00
5	Construction of dry lean cement concrete sub base over a prepared sub-base/ base with coarse and fine aggregate conforming to IS : 383, the size of coarse aggregate not exceeding 25 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, OMC 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 incl. maintenance of Diversion, all required lead and lift, all taxes, royalty etc. complete as directed.	1,134.00	cu.mt.	2195.00	2489130.00

6	M-35 Grade Pavement Quality Concrete - Construction of un-Reinforced, dowel jointed cement concrete pavement design over a prepared sub base with 53 grade cement @ 400 kg per cum, coarse and fine aggregate conforming to IS 383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a batching and mixing plant as per approved mix design, transported to site, laid with a fixed form or slip form paver, spread, compacted and finished in a continuous operation as per drawing, surface texturing as per IRC-15 & as approved including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane of impermeable plastic sheeting 125 micron thick as approved, sealant primer, joint sealant, debonding strip, 32 mm dia dowel bar, 12 mm dia tie rod, admixtures IS marked as per 9103-1999 @ 0.50 % by weight of cement as approved, finishing to lines and grades as per drawing & MoRTH Specifications including curing of concrete for 14 days, Maintenance of Division, all required lead and lift, all taxes, royalty incl. cost of materials and labours.	2,552.00	cu.mt.	4690.00	11968880.00
7	Foundation filling with Rubble Cement Mortar in proportion of 1:6 Cement:Mortar	503.00	cu mt	1493.00	750979.00
8	Rubble Stone filling with 33% Murrum in specified thickness with watering, compaction etc. complete	1,256.00	cu mt	529.00	664424.00
9	Foundation filling with CC work in proportion of 1:4:8 including Raming, Curing etc.	252.00	cu mt	3197.00	805644.00
10	Providing, laying and jointing in true line and level 110 diameter U.P.V.C (Type B) conforming to IS 13592-1992 with one end plain and other end socketed with rubber ring, & fittings conforming to ISI 14735-1999 of approved make for drainage system pipe line, pipe shall be jointed with each other with rubber lubricant, pipe shall be fixed on wall using of PVC clamp of the size 110 mm diameter x 149 mm length x 145 mm height at every 2000 mm center to center or shall be concealed in walls as directed including necessary fittings such as bends, shoes etc. including testing of pipes and joints and jointed with adhesive solvent cement including cost of all materials. (Slotted Pipe)	40.00	Rmt.	551.25	22050.00
				<b>Total</b>	<b>25196216.00</b>

Sub Estimate No. 3 :- Amistrative Office Building					
Amistrative Office Building					
1	Excavation of foundation in soft morrum, soil of sand from 0.0 mtr. To 1.50 mtr. Depth including lifting and laying in designated place as instructed.	18.00	cu.mt.	96.60	1738.80
2	Excavation of foundation in hard moram from 0.0 mtr. To 1.50 mtr. Depth including lifting and laying in designated place as instructed.	41.00	cu.mt.	103.50	4243.50
3	Excavation of Foundation in Soft Rock from 0.0 mtr. to 1.50 mtr depth including lifting and laying in 90 mtr. lead area as instructed	15.00	cu.mt.	220.80	3312.00
4	Excavation of foundation in hard moram from 1.51 mtr. To 3.00 mtr. Depth including lifting and laying in designated place as instructed.	9.00	cu.mt.	117.30	1055.70
5	Excavation of foundation in soft rock from 1.51 mtr. To 3.00 mtr. Depth including lifting and laying in designated place as instructed.	21.00	cu.mt.	255.30	5361.30
6	Filling of Plinth with using excavated usefull material partly and remaining murrum to be brought from out side in layer of 0.23 m thick including murrum and sprinkling of water, compaction etc. complete	50.00	cu mt	147.00	7350.00
7	Filling of Plinth in layers of 0.23 m thick including murrum and sprinkling of water, compaction etc. complete	100.00	cu mt	279.00	27900.00
8	Removal of Excavated Stuff within RMC limit as directed by Engineer-in-Charge	53.00	cu mt	171.00	9063.00
9	Foundation filling with CC work in proportion of 1:2:4 using 1.5 cm to 2.0 cm aggregate including Raming, Curing etc.	3.00	cu.mt.	3913.20	11739.60
10	Foundation filling with CC work in proportion of 1:3:6 using 1.5 cm to 2.0 cm aggregate including Raming, Curing etc.	7.00	cu.mt.	3360.00	23520.00
11	providing and laying Ready Mix cement concrete M-250 and curing complete including cost form work and excluding the cost of reinforcement for reinforced concrete work in FOUNDATION FOOTING base of columns and Mass concrete including providing & mixing plasticiser and Water Proofing Chemical in cement concrete including rate of labour material etc.	18.00	cu mt	5569.00	100242.00



12	Providing and laying Ready Mix cement concrete M-250 and finishing smooth with curing etc. complete including cost of formwork and excluding the cost of reinforcement for reinforced concrete work in COLUMN UP TO ALL FLOOR all heights for any cross sectional area including providing & mixing plasticiser and Water Proofing Chemical in cement including scaffolding etc. and complete rate of labour material etc.	8.00	cu mt	6096.00	48768.00
13	Providing and laying Ready Mix cement concrete M-250 and finishing smooth with curing etc. complete including cost of form work and excluding the cost of reinforcement for Plinth BEAMS having any cross sectional area for all floors all heights including scaffolding etc complete including providing & mixing plasticiser and Water Proofing Chemical in cement concrete including labour and material etc.	8.00	cu mt	6156.00	49248.00
14	Providing and laying Ready Mix cement concrete M-250 and finishing smooth with curing etc. complete including cost of form work and excluding the cost of reinforcement for R.C.C. work in BOTTOM SLAB having thickness of 10 cm and up to 15cm Complete including providing & mixing plasticiser and Water Proofing Chemical in cement concrete including labour and material etc.	10.00	cu mt	5297.00	52970.00
15	Providing and laying Ready Mix cement concrete M-250 and finishing smooth with curing etc. complete including cost of form work and excluding the cost of reinforcement for BEAMS having any cross sectional area for all floors all heights including scaffolding etc complete including providing & mixing plasticiser and Water Proofing Chemical in cement concrete including labour and material etc.	17.00	cu mt	6156.00	104652.00
16	Providing and laying Ready Mix cement concrete M-250 and finishing smooth with curing etc. complete including cost of form work and excluding the cost of reinforcement for R.C.C. work in SLAB having thickness of 10 cm and up to 15cm Complete including providing & mixing plasticiser and Water Proofing Chemical in cement concrete including labour and material etc.	21.00	cu.mt.	5875.00	123375.00

17	Providing and laying Ready Mix cement concrete M-250 and finishing smooth with curing etc. complete including cost of form work and excluding the cost of reinforcement for RCC STAIR CASE for all floors all heights all cross section area including scaffolding etc complete including providing & mixing plasticiser and Water Proofing Chemical in cement concrete including labour and material etc.	6.00	cu.mt.	5886.00	35316.00
18	Providing and laying controlled cement concrete M-200 and finishing smooth with curing etc. complete including cost of form work and excluding the cost of reinforcement for R.C.C. LINTEL/ RUNNER WORK having thickness of 10 cm and up to 15cm for all floors all heights including scaffolding etc complete including labour and material etc.	1.00	cu mt	5538.00	5538.00
19	Providing and laying controlled cement concrete M-200 for RCC CHHAJJAS not exceeding 10 cm thickness including finishing the exposed surfaces with cement mortar 1:3(1-cement, 3-fine sand)to give a smooth and even surface including centering formwork and curing etc. all heights including scaffolding etc. complete including rate of labour material etc.	2.00	cu mt	5723.00	11446.00
20	Supplying, Cutting, Bedding, Binding and Hooking and binding with wire for RCC work Tor steel TMT round bar including all cost (Fe-500/500D)	6,800.00	Kg	57.00	387600.00
21	Brick Masonary work using conventional burnt clay building bricks having crushing strength not less than 35 kg/sq cm foundation and plinth and all above in super-sub structure for all for including scaffolding including labour and material costing in cement mortar 1:6(1, cement and 6, fine sand)	55.00	cu.mt.	4196.00	230780.00
22	Providing and constructing half brick work using common burnt clay build bricks having crushing strength not less than 35 KG/SQ CM in foundation and plinth and up to floor two level in cement mortar 1:4 (1 cement : 4 fine sand) (B) Conventional	94.18	Sqmt.	411.00	38707.98
23	Cement Plaster Work 1.2 cm average thick using Cement:Mortar in proportion of 1:3 rough cast (without Niru Finishing) for All Floor and for any height.	434.00	Sqmt.	168.00	72912.00

24	20mm thick Sand Face Cement Plaster Work in which 1 plaster in proportion of 1:3 and 2nd plaster in proportion of 1:2 using Cement:Mortar with Spot finishing etc. complete (Note: Before carrying out Plaster work on RCC, required tipping work should be carried out as instructed)	305.00	Sqmt.	217.00	66185.00
25	Applying two coats of Birla (White Cement based) or Asian ( acrylic lapy putty) or equivalent & 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 and sand papered smooth.	434.00	Sqmt.	47.40	20571.60
26	Providing 35 mm wide throating or plaster drip and moulding it to R.C.C. chajja etc. complete.	72.00	Rmt.	27.50	1980.00
27	Decorative Groove Work in Cement Plaster	127.00	Rmt.	33.00	4191.00
28	Supply & fixing of Vitrified flooring work (1st quality)	87.00	Sqmt.	564.00	49068.00
30	Providing and laying green polished kota stone slab flooring over 20 mm (average) thick base of cement mortar 1:6 (1cement: 6 sand) laid over and joined with grey cement slurry including and polishing etc. complete. (A) 25 mm thick	8.00	Sqmt.	791.00	6328.00
31	Supply & Fixing of Polished Kota Stone steps and risers work of length 0.90 to 1.45 mtr and thickness 20-25 mm to be fixed in Lime:Mortar 1:2 and Cement slury and as instructed	68.00	Rmt.	383.00	26044.00
32	Providing and laying Ceramic tiles 6mm thick in flooring on a bed of 12mm thick cement mortar 1:3 (1-cement : 3-coarse sand ) finishing with flush pointing in Colour cement.	20.00	Sqmt.	669.90	13398.00
33	Supply & Fixing of Glazed tiles (1st Quality) of required size in Cement Roga and joints to be filled with white cement after 12mm rough plaster in proportion of 1:3	124.00	cu mt	426.00	52824.00

34	Providing and fixing stone slab with table rubbed, edges rounded and polished of size 90x50 cm deep and 1.8 cm thick, fixed in urinal partitions by cutting a chase of appropriate width with chase cutter and embedding the stone in the chase with epoxy grout or with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6 mm nominal size) as per direction of Engineer-in-charge and finished smooth. Granite Stone of approved shade	4.00	sqmt	3542.85	14171.40
35	Supply & Fixing of Granite Stone (Telephone Black Color) on wall after rough cast Cement Plaster in proportion of 1:3 and fixing grainage in Cement Paste	22.00	sqmt	2502.00	55044.00
36	Providing & constructing of Sandwich type Kitchen Platform of 60cm. width and 80 cm. height with Granite slab (18 to 20mm) on top resting on one side polished kotah stone 25 mm thick top and two 25mm thick polished kotah stone vertical support fixing by making grooves including 75 mm wide facing patti with external edge of the patti shall be finished with Quarter round molding& mirror polished etc. completed complete as per drawing and specification without stainless steel sink including necessary cutting for sink & making hole for gas pipe and fixing P.V.C. band of 25 mm dia per sink size as directed by an Engineer in charge.	2.00	R mt	1949.00	3898.00
37	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters: 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	20.00	Sqmt	2015.75	40315.00
38	Supply & Fixing of Laminates 1mm of Approved Quality	39.00	Sqmt	1148.00	44772.00
39	Extra rate for Cromium plated brass fittings for Door	20.00	Sqmt	388.00	7760.00

40	Providing and fixing FRP frame size 125x65 mm and 35mm thick FRP shutter with wood grain raised paneled design finish shutter having extra reinforcement on sides & edges in Gel coat finish. The core of the shutter & frame is to be filled up with injected polyurethane foam done in situ alongwith embedded wooden pieces for stiffening & also taking hinges & fixtures. The whole FRP frame & shutter is to be water proof weather proof, termite proof & resistance to mild acid/alkali. Rates are to be inclusive of S.S hinges with fastener sleeve & aluminium fixtures & fastenings.	8.00	sqmt	4189.00	33512.00
41	Supplying and fixing aluminium frame 62.50 x 25 mm. size and 37.50 x 18mm size shutter with sliding frame 2-track of standard company etc. complete	22.00	cu mt	4088.00	89936.00
42	Providing and fixing standard extruded section of size 63 mm x 38.10 mm x 1.20 mm (jindal section no- 2434 w wt. .643 kg/Rmt.) with Colour Anodized Aluminium frame for VENTILATION 5 mm thick frosted glass as detail etc. complete for ventilations	3.00	sqmt	1373.45	4120.35
43	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 and sand papered smooth.	434.00	Sqmt.	47.40	20571.60
44	Enamel painting on door/window, iron door, iron grill or woodwork two coat with Primer	25.00	Sqmt	113.00	2825.00
45	Plastic Emulsion Paint (Two coats) (Asian Paint, ICI, Dulux, Nerolac, Berger etc. of approved type) (with Prime Coat)	434.00	cu mt	126.00	54684.00
46	Apex Color work on Outer side of Wall (Two coats) (with Base Coat)	305.00	Sqmt.	99.00	30195.00
47	Iron work as per drawing and instruction including all	63.00	kg	86.00	5418.00
48	providing, fabricating, erecting and placing in position stainless steel pipe railing made of Hollow tubes, channels, plates etc. (304 grade) including cutting welding and bolting wherever necessary including accessories fixing hardware. All welded joints to be grinded and cleaned and finished as satin finish including buffing. All ss to 304 grade	150.00	Kg	460.00	69000.00

49	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc. consisting of following operations.(a) Applying and grouting slurry coat of neat cement using 2.75 kg/sqm. of cement admixed with proprietary water proofing compound conforming to IS 2645 over the R.C.C. slab including cleaning the surface before treatment (b) Laying cement concrete using broken brick bats 25mm to 100mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) proprietary water proofing compound confirming to IS 2645 over 20 mm thick layer of cement mortar 1:5 (1 cement: 5 coarse sand) admixed with admixed with proprietary water proofing compound confirming to IS 2645 to required slope and treating similar surface to adjoined walls up to 300 mm. height including rounding of junctions of walls and slabs.(c) After two days of proper curing, applying a second coat of cement slurry admixed with proprietary water proofing compound conforming to IS:2645	63.00	Sqmt.	710.20	44742.60
50	Providing and fixing M.S. Grills of required pattern to wooden frames of windows etc. at all floor levels with MS flats at required spacing and frame around square or round bars with round headed bolts and nuts or by screw including Priming coat of Red lead paint etc. complete (A) plain grill for all floors. In windows.	405.00	Kg.	68.78	27855.90
51	Supply & Fixing of Stair Hand Railing S.S. Pipe 50mm Dia. Only Single Pipe With fitting comp. as directed by EIC/ consultant.	15.00	Rmt.	1185.00	17775.00
<b>WATER SUPPLY AND SANITARY ITEMS</b>					
52	Providing and fixing wash down water closet(european type WCpan) with sit cover including jet spray and stop cock	4.00	No.	34.00	136.00
53	Provide & fixing wash basin with single hole for pillar tap at all floor levels, with C.I. or M.S. Brackets painted white including cutting holes & making good the same excluding fittings (A) vitreous china flat wash basin 550 mm x 400 mm size of approved colour with C.P. Brass waste for washbasin. 32 mm Dia	4.00	No.	1397.00	5588.00

54	Providing & fixing screw down stop tap (A) 15 mm dia.	4.00	No.	250.00	1000.00
55	Providing and fixing chromium plate bottle trap with necessary coupling of approved quality for wash-basin.	4.00	No.	690.00	2760.00
56	Providing and fixing Urinal of approved quality including connection with trap and with integral longitudinal flush pipe and brass screw down stop tap.(A) 15mm dia.(A) Squating plate pattern white earthenware 550mm x 300mm.	4.00	No.	1269.47	5077.88
57	Provide & fixing 600 mm x 450mm Bevelled edge mirror of superior glass at all floor levels, mounted on 6mm .thick A.C. sheet or plywood sheet in P.V.C. box type frame & fixed to wooden plugs with C.P. brass screws and washers etc.	4.00	No.	611.10	2444.40
58	White porcelain Kitchen Sink size 60/450/200 mm with supply and fitting.	1.00	No.	3048.00	3048.00
59	Providing and fixing PVC SWR Nahni trap IS 14375 for drain - 100 mm diameter with jali of the following nominal diameter of self cleansing design with C.I. screed down or hinged grating including the cost of cutting and making good of the wall.	8.00	NO.	376.95	3015.60
60	Providing, laying and jointing in true line and level 75mm diameter U.P.V.C (Type B) conforming to IS 13592-1992 with one end plain and other end socketed with rubber ring, & fittings conforming to ISI 14735-1999 of approved make for drainage system pipe line, pipe shall be jointed with each other with rubber lubricant, pipe shall be fixed on wall using of PVC clamp of the size 75 mm diameter x 114 mm length x 145 mm height at every 2000 mm center to center or shall be concealed in walls as directed including necessary fittings such as bends, shoes etc. including testing of pipes and joints and jointed with adhesive solvent cement including cost of all materials.	30.00	Rmt.	435.25	13057.50

61	Providing, laying and jointing in true line and level 110 diameter U.P.V.C (Type B) conforming to IS 13592-1992 with one end plain and other end socketed with rubber ring, & fittings conforming to ISI 14735-1999 of approved make for drainage system pipe line, pipe shall be jointed with each other with rubber lubricant, pipe shall be fixed on wall using of PVC clamp of the size 110 mm diameter x 149 mm length x 145 mm height at every 2000 mm center to center or shall be concealed in walls as directed including necessary fittings such as bends, shoes etc. including testing of pipes and joints and jointed with adhesive solvent cement including cost of all materials.	50.00	Rmt.	551.25	27562.50
62	Providing and fixing S.W. Gully trap with C.I. grating brick masonry chamber and water tight C.I. cover with frame of 300 x 300 mm size ( inside )with standard weight Square mouth Traps. (A) 100 X 100 mm Size – P type.	2.00	NO.	1194.00	2388.00
63	Constructing brick masonry chambers for underground C I Inspection Chamber and bends with bricks having crushing strength not less than 35kg/sq cm in C.M. 1:5 C I cover with frame (light duty)455x610mm internal dimension total weight of cover with frame to be not less than 38kg RCC top slab with CC 1:2:4 mix (1,cement : 2,coarse sand: 4,graded aggregate 20 mm size) foundation concrete 1:5:10 inside plaster 15mm thick with C.M. 1:3 finish smooth with finishing coat of neat cement on walls and bed concrete etc (inside dimensions 500mm x 700mm x & 450mm deep) for single pipe lines with one of two inlets.	2.00	NO.	3408.30	6816.60
64	Providing and laying (to level or slope)and jointing with stuff mixture of cement mortar in proportion 1:1 soft glazed stoneware pipes following normal diameters incl. testing of pipes and joints complete(B) 150mm stoneware pipes	100.00	R mt	245.70	24570.00
65	Providing and laying CC 1:5:10(1,cement : 5,fine sand : 10graded stone aggregate 40 mm normal size) Bedding for Stoneware Pipes of following internal diameter with necessary formwork and curing complete (A) 150mm pipes	100.00	Rmt	157.50	15750.00



66	Providing laying and jointing in true line and level 15mm dia. U.P.V.C. Pipe ( SCH- 40) for cold water including fittings make PRINCE / SUPREME / ASTRAL / FINOLEX or equivalent as approved by Engineer In Charge. Pipe shall be fixed on the wall with the help of clamp at every two metre C/C or shall be cancelled as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.	30.00	Rmt.	84.87	2546.10
67	Providing laying and jointing in true line and level 25mm dia. U.P.V.C. Pipe ( SCH- 40) for cold water including fittings make PRINCE / SUPREME / ASTRAL / FINOLEX or equivalent as approved by Engineer In Charge. Pipe shall be fixed on the wall with the help of clamp at every two metre C/C or shall be cancelled as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.	20.00	Rmt.	107.29	2145.80
68	Providing laying and jointing in true line and level 32mm dia. U.P.V.C. Pipe ( SCH- 40) for cold water including fittings make PRINCE / SUPREME / ASTRAL / FINOLEX or equivalent as approved by Engineer In Charge. Pipe shall be fixed on the wall with the help of clamp at every two metre C/C or shall be cancelled as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.	20.00	R mt	139.00	2780.00
69	Providing and fixing C.P brass screw down bib tap at all floor levels, polished bright etc. complete as directed by the Engineer-in - charge. 15 mm. dia.	6.00	No.	218.29	1309.74
70	Providing and fixing M.I. fisher union for wash basin or sink. 32 mm dia.	4.00	No.	87.33	349.32
71	Providing and fixing gun metal check or non return full way wheel valve at all floor levels, etc. complete. 15mm Dia.	2.00	No.	185.60	371.20
72	Providing and fixing gun metal check or non return full way wheel valve at all floor levels, etc. complete. 25mm Dia.	2.00	No.	491.44	982.88
73	Providing and fixing Gun metal check or non-return fullway wheel valve.(D) 32mm dia.	2.00	No.	367.70	735.40

74	RCC precast cover with supply, fitting, fixing with complete as per specification 10 ton size 700/700/90mm.	3.00	Nos.	1179.00	3537.00
75	RCC precast frame with supply, fitting, fixing with complete as per specification 10 ton size 700/700/90mm.	3.00	Nos.	776.00	2328.00
76	Providing erecting and fixing double coated Syntex or equivalent PVC (ISI) mark water tank of required capacity each with all necessary fittings and connection etc. complete.	5,000.00	Ltrs.	4.61	23050.00
<b>Electrical Work</b>					
77	Point wiring for Light / Bell with 2-1.5 sq.mm & earthwire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multistrand copper wires, in following type of pipe to be erected concealed in/ on surface on wall/ceiling complete with 6A Modular type switch / bell push & accessories and earth continuity of following type, erected on PVC / Metallic box, single mounting base frame covered with textured/metallic front plate modules erected on / in wall / ceiling as per pipe erected, with necessary Lamp holder /ceiling rose / H.D.Connector as directed.(a) with medium class Rigid PVC pipe and accessories Cat. III	30.00	No.	463.00	13890.00
78	Point wiring for FAN with 2-1.5 sq.mm & earthwire of 1.5 sq.mm (Green) both are of .ISI marked 1.1 KV Grade FRLS PVC insulated multistrand copper wires, in following type of pipe to be erected concealed in / flushed on wall/ceiling complete with 6A Modular type switch and hum free EME four or more step type electronic fan regulator with separately mounted and accessories with earth continuity of following type erected on PVC / Metallic box, single mounting base frame covered with textured/metallic front plate modules erected on / in wall / ceiling as per pipe erected. with necessary ceiling rose / H.D.Connector as directed. (a) with medium class Rigid PVC pipe and accessories Cat. III	9.00	No.	663.00	5967.00

79	Point wiring for Individual Plug with & earthwire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multistrand copper wires, in following type of to be erected concealed in / on surface of wall / ceiling complete with Modular type switch & 5 pin Plug erected on PVC / Metallic box covered with appropriate front plate modules erected on / in wall / ceiling as per pipe erected with following type of accessories. [I] For 6A Plug with 2-1.5 sq.mm Cu. Wire (a) with medium class Rigid PVC pipe and accessories Cat. III	10.00	No.	492.00	4920.00
80	[II] For 16A Plug with 2-2.5 sq.mm Cu. Wire (a) with medium class Rigid PVC pipe and accessories Cat. III	10.00	No.	742.00	7420.00
81	Point wiring for Looped Plug with 6A Modular type switch & 5 pin socket erected on PVC / Metallic box, single mounting base frame covered with textured / metallic front plate modules erected on / in wall / ceiling with following type accessories Cat. III	13.00	No.	266.00	3458.00
82	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 & Clamps with following dia of pipes, in approved manner as directed (b) 25 mm	150.00	Mtr	36.00	5400.00
83	Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected concealed in /flushed on wall/ceiling, with 1.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size (a) with medium class Rigid PVC pipe and accessories (a) 2 wire 1.5 sq. mm	170.00	Mtr	68.00	11560.00
84	(b) 2 wire 2.5 sq. mm	250.00	Mtr	90.00	22500.00
85	Providing and erecting XLPE(IS:7098)(I)-88 ISI armoured cable multistrand 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. (C) 4 core 6 Sq. mm	90.00	Mtr	592.00	53280.00

86	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 (A)50 mm outer dia	90.00	Mtr	72.00	6480.00
87	Providing & erecting Switch board for Computer or electric apparatus consisting of following items in single board erected on PVC / Metal board with 3 mm thick PC (Polycarbonate) / Acrylic sheet erected as directed 1 no. 6A/16A universal plug-switch combined. 4 nos. 6A Switch 4 nos. 6A 5 pin Plug [B] For Modular Type Accessories Cat. III	4.00	Nos	1262.00	5048.00
88	Supplying and erecting LED indoor fittings with LEDs of wattage 0.2 Watt to 0.5 Watt assembled on single MCPCB, with housing used as a heat sink shall be made of thick sheet Steel conforming to IS: 513/CRCA polyester powder coated and high U.V. & corrosion resistance with diffuser and/or Polycarbonate optics with company mark/name 120 to 300 V,Power Factor more than 0.9, THD < 10 %, CCT 4000 K to 6500K, Uniformity ratio >0.7, Luminaire efficacy> 85 lumens/watt , LED driver efficiency > 85 % as per Approved make LED used for luminaire. (Each fitting required LM-79 & LM-80 Certificates) (A) Tube Light with integral/non-integral driver.(iv) 22-24 Watts, Surge - 2KV,IP-20, conventional 4 feet Cat-III	10.00	Nos	480.00	4800.00
89	(D) LED Panel Light with provision for Plane front frame with translucent cover fixed to housing complete.(f) upto 36 watts, 600 x 600 mm, Surge- 2KV	10.00	Nos	2325.00	23250.00
90	(C) Square/ Circular Surface/Recessed Mounted Downlight with provision for spring loaded mounting clips complete. (c) 20-24 watts, Surge-4 KV Cat-III	10.00	Nos	980.00	9800.00

91	Providing & erecting Approved make Power Saving Ceiling Fan of decorative type with double ball bearing ISI mark with Condenser 230 volt A.C. 50 Hz 1200 mm sweep complete having 3 blades with aluminium blades with , canopy & 30 cms. down rod erected with 24/ 0.2, 3 core flexible wire with earthing.(Make & Sample shall be approved by Engineer in charge)	9.00	No.	2510.00	22590.00
92	Supplying and erecting 19 / 20 mm. nominal bore Medium Class M.S. Pipe down rod erected duly painted for fan complete with necessary 24/ 0.20, 3 core flexible wire with earthing.	9.00	No.	125.00	1125.00
93	Supplying & erecting fan hook box of 10 mm M.S. round bar bounded to the RCC bars up to 50mm length each side and pierced through a 16 Gauge M.S. box / Heavy Duty PVC box complete erected concealed in Ceiling with necessary finishing.	9.00	No.	125.00	1125.00
94	Providing 2.5mm.thick laminated acrylic sheet to cover the fan hook or Fan box.	9.00	No.	20.00	180.00
95	Providing and erecting Sheet Steel powder coated MCB distribution board - flush / surface mounted fitted with busbar, neutral link, earth bar and DIN rail, Conforms to IS 8623-1 & 3, IEC 61439-1 & 3 without MCB to house appropriate nos. of MCBs.(The DBs should be used of same company of MCB to be used) suitable for (N) Three phase 8 way SS Double door for horizontal single phase outgoing	1.00	No.	3986.00	3986.00
96	Miniature circuit breaker single pole 6A to 32A 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 Cat.III	18.00	Nos	130.00	2340.00
97	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 (c)63 Amp. Cat.III	1.00	No.	835.00	835.00
98	Approved make ELCBs / RCCBs conforming to IS: 12640 and having sensitivity of 30 mA and Short Circuit withstand capacity of 6 KA and suitable for operation on 3 phase and neutral 415V. having characteristic of quick action & tripping with all advance feature & do not incorporate any electronic component for following Max. rating erected as directed.(iii) 63 Amps. FP	1.00	No.	3550.00	3550.00

99	Providing following type of Modular Type Accessories mounted with pvc / metallic box, single mounting base frame covered with textured / metallic front plate , modules erected with necessary connection. As desired by Engineer In charge (22) 16/20/25 Amp. Modular Starter for Motor / A.C. Unit Complete Cat.III	2.00	No.	554.00	1108.00
100	Providing and erecting 3 star and above rated approved make split air-conditioning unit consisting of condensing unit with fan motor, hermetically sealed rotary compressor with accessories etc. duly connected separately erected evaporating unit and blower motor with its accessories by means of proper insulated copper tubing up to 5 RMT suitable for (Cost includes M.S. Stand, Gas Charging & Internal Copper Wiring & Remote Control) (B) for 2 ton capacity	3.00	No.	49050.00	147150.00
<b>Total Amount</b>					<b>2679136.25</b>
<b>Sub Estimate No. 4 :- Borewell</b>					
1	Drilling of 165mm dia bore by DTH Rig in Rocky Formation up to required depth including fixing of 175/180 dia PVC pipes and fixing of bore cap etc. components. (Casing up to 12 Mts.) From 0 to 150 meters deep	300.00	Rmt.	264.00	79200.00
2	Drilling of 165mm dia bore by DTH Rig in Rocky Formation up to required depth including fixing of 175/180 dia PVC pipes and fixing of bore cap etc. components. From 151 to 225 meters deep	150.00	Rmt.	327.00	49050.00
3	Drilling of 165mm dia bore by DTH Rig in Rocky Formation up to required depth including fixing of 175/180 dia PVC pipes and fixing of bore cap etc. components. From 226 to 300 meters deep	100.00	Rmt.	351.00	35100.00
4	Supplying submersible pump set for bore of 150 mm. dia. Or more having 3 phase motor capacity about 10 H.P and discharge capacity having [C] 25 stage 160 to 100 LPM discharge at 185 to 220 mtr head for 65 mm dia delivery pipe Cat.III	2.00	Each	43500.00	87000.00

5	Supply and delivery of following ISI marked H.D.P.E. Pipes (IS:4984/1985 with latest amendment) having material Grade PE-80 in approximate 100 mtr. Coil length or as per requirement with SS-316 Nipple at both end having 11 TPI threading as per specification, press fitted and bolted having nominal diameter (iii) DN 63 PN-16	500.00	Rmt.	181.00	90500.00
6	Lowering of submersible motor pump set at the depth of following ,complete with required. Nos. and size of casing pipes erected by means of proper chain pulley block & pipe wrenches after checking of threads of each pipe with coupling to take the load of the pump set and pipe assembly filled up with water (c)Above 120 mtr.	2.00	Per Job	3500.00	7000.00
7	Heavy duty clamp made from 4" x 1.5" iron strip suitable for column pipe 1.5" to 2" length. (C) 65mm(2.1/2") dia. Pipe	2.00	Each	240.00	480.00
8	Providing and erecting ISI marked PVC insulated PVC Sheathed Flat flexible Submersible copper cable approved make of following Size. (e) 3 Core x 6 Sq. mm.	1,600.00	Rmt.	182.00	291200.00
9	Providing Water proof straight Joint in PVC insulated flat flexible copper cable by using insulating material, water proofing material, & making the joint complete. (A) Up to 10Sq. mm	16.00	Each	220.00	3520.00
11	Supplying & erecting G.I. bend for pipe connections suitable for (E) 65 mm(2.5")	2.00	Each	234.00	468.00
12	Supplying & erecting ISI Marked G.I. Union for pipe connections suitable for (E) 65 mm(2.5")	2.00	Each	318.00	636.00
13	Supply of following size of TOP & BOTTOM accessories i.e. Adaptor set (CI) long, pump guard set, starter pipe Rubber ring for submersible pump & UPVC column pipe as directed by Engineer - in - charge with necessary plumbing as desired. [E] 65 mm dia	2.00	Each	2220.00	4440.00
14	Supplying & erecting ISI Marked G.I. Reducer Socket for pipe connections suitable for (E) 65 mm(2.5")	2.00	Each	210.00	420.00
15	Supplying and erecting with leak proof materials, M.S. Heavy duty ISI marked coupling having threads of 8 TPI/11 TPI suitable for 'C' class pipe to take load of pump and pipe assembly of following size and TPI :- (F) 65mm(2.1/2") dia. pipe 11 TPI	2.00	Each	93.00	186.00

16	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 & Clamps with following dia of pipes, in approved manner as directed (c) 32 mm	300.00	Rmt	53.00	15900.00
17	Supplying & erecting approved make 3 phase motor control cubical panel ( Star - Delta) made from 16 G. CRCA sheet duly painted with epoxy powder painted inside and outside with hinged doors and locking arrangement, consisting of suitable size of ON- OFF isolator (AC - 3/23 duty) main fuses, single phasing preventer cum water level. Guard (Complete unit), Toggle switch to by pass Single phase preventer cum WLG, indicating lamps for R- Y- B phases, over load relay, Automatic water level controller, Ammeter & Voltmeter each with two way selector switch incoming wires duly socket Crimped, Panel to be erected on angle iron frame grouted on wall as directed. Star Delta & main contactor, overload relay, thermal / Electronic Star delta cutoff timer, start - stop push buttons. The isolator overload relay & contactors of L& T, Siemens or Cuttler Hamer make only. Panel to be erected on angle iron frame ground on wall. (b) S/D up to 10 H.P.	2.00	Each	14450.00	28900.00
18	Construction of valves chambers of (0.60 m x 0.60m x 0.75m) in brick masonry, locally available in C. M. 1:6. Foundation concrete 150 mm thick in C. C. 1:4:8 of trap metal size 25 mm to 40 mm thick, inside cement plaster in C. M. 1:3 and cement pointing outside in C. M. 1:3 and top cover of precast RCC slab 100 mm thick (with key hole in two parts, each with handles or MS Bar etc. complete as given size) Upto 0.75 Mt. depth from G. L. incl. complete civil works and cost of excavation with fixing of RCC-MH Frame and cover with 23 mm thick brick masonry wall in C.M.1:6	2.00	Each	3741.00	7482.00
19	Providing and laying in trenches galvanised mild steel tubes (Medium grade) of the following nominal bore, and tube fitting (Earthwork in trenches to be measured and paid for separately)(E) 65mm	300.00	Rmt	573.30	171990.00
<b>Total Amount</b>					<b>873472.00</b>
<b>Sub Estimate No. 5 :- Under Ground Water Tank</b>					



1	Excavation of foundation in soft morrum, soil of sand from 0.0 mtr. To 1.50 mtr. Depth including lifting and laying in designated place as instructed.	35.00	cu.mt.	96.60	3381.00
2	Excavation of foundation in hard moram from 0.0 mtr. To 1.50 mtr. Depth including lifting and laying in designated place as instructed.	80.00	cu.mt.	103.50	8280.00
3	Excavation of Foundation in Soft Rock from 0.0 mtr. to 1.50 mtr depth including lifting and laying in 90 mtr. lead area as instructed	57.00	cu.mt.	220.80	12585.60
4	Excavation of foundation in hard moram from 1.51 mtr. To 3.00 mtr. Depth including lifting and laying in designated place as instructed.	35.00	cu.mt.	117.30	4105.50
5	Excavation of foundation in soft rock from 1.51 mtr. To 3.00 mtr. Depth including lifting and laying in designated place as instructed.	80.00	cu.mt.	255.30	20424.00
6	Excavation of foundation in Hard rock from 1.51 mtr. To 3.00 mtr. Depth including lifting and laying in designated place as instructed.	57.00	cu.mt.	531.30	30284.10
7	Foundation filling with CC work in proportion of 1:2:4 using 1.5 cm to 2.0 cm aggregate including Raming, Curing etc.	18.00	cu.mt.	3913.20	70437.60
8	providing and laying Ready Mix cement concrete M-300 and curing complete including cost form work and excluding the cost of reinforcement for reinforced concrete work in FOUNDATION FOOTING base of columns and Mass concrete including providing & mixing plasticiser and Water Proofing Chemical in cement concrete including rate of labour material etc.	27.00	cu mt	6127.00	165429.00
9	Providing and laying Ready Mix cement concrete M-300 and finishing smooth with curing etc. complete including cost of formwork and excluding the cost of reinforcement for reinforced concrete work in WALL for all heights for any cross sectional area including providing & mixing plasticiser and Water Proofing Chemical in cement including scaffolding etc. and complete rate of labour material etc.	36.00	cu mt	7267.00	261612.00

10	Providing and laying Ready Mix cement concrete M-300 and finishing smooth with curing etc. complete including cost of form work and excluding the cost of reinforcement for BEAMS having any cross sectional area for all floors all heights including scaffolding etc complete including providing & mixing plasticiser and Water Proofing Chemical in cement concrete including labour and material etc.	4.00	cu mt	6715.00	26860.00
11	Providing and laying Ready Mix cement concrete M-300 and finishing smooth with curing etc. complete including cost of form work and excluding the cost of reinforcement for R.C.C. work in SLAB having thickness of 10 cm and up to 15cm Complete including providing & mixing plasticiser and Water Proofing Chemical in cement concrete including labour and material etc.	14.00	cu mt	6434.00	90076.00
12	Supplying, Cutting, Bedding, Binding and Hooking and binding with wire for RCC work Tor steel TMT round bar including all cost (Fe-500/500D)	9,200.00	Kg	57.00	524400.00
13	Filling of plinth with using excavated usefull material partly and remaining murrum to be brought from out side in layer of 0.23 m thick including murrum and sprinkling of water , compaction etc. complete.	131.00	cu mt	147.00	19257.00
14	Cement Concrete flooring (IPS) 50 mm thick in proportion of 1:2:4 with a floating coat of neat cement, finishing, curing etc. complete	88.00	Sqmt	283.00	24904.00
15	Water Proof Cement Plaster 20 mm thick using Water Proofing Compound and in the ratio of 1:3 with necessary finishing	297.00	Sqmt	217.00	64449.00
16	RCC precast cover with supply, fitting, fixing with complete as per specification 10 ton size 550/550/90mm.	3.00	No.	891.00	2673.00
17	RCC precast frame with supply, fitting, fixing with complete as per specification 10 ton size 550/550/90mm.	3.00	No.	466.00	1398.00
18	Providing & erecting open well horizontal mono block pump set with cast iron body, complete for three phase submersible motor having [C] For 3 HP 3 phase open well horizontal mono block pump set suitable for 85 LPM to 270 LPM @ 11 mtr to 33 mtr head suitable for 50/65 mm dia delivery pipe Cat.II	1.00	Each	13960.00	13960.00

19	Providing & erecting open well horizontal mono block pump set with cast iron body, complete for three phase submersible motor having [D] For 5 HP 3 phase open well horizontal mono block pump set suitable for 1350 LPM to 310 LPM @ 10 to 42 Mtr head suitable for 50/65 mm dia delivery pipe Cat.II	1.00	Each	16650.00	16650.00
20	Supplying & erecting approved make motor control cubical panel (Direct - on - line) made from 16 G. CRCA sheet duly epoxy powder painted inside and outside with hinged doors and locking, arrangement consisting of suitable size of ON- OFF isolator (AC - 3/23duty) main fuses, single phasing preventer, indicating lamps for R- Y - B phases, overload relay, Automatic water level controller, Ammeter, Voltmeter each with two way selector switch incoming, wires duly socket crimped, main contactor & overload relay, start - stop push buttons, to be erected on angle iron frame grouted on wall as directed. The isolator, overload relay & contactors will be of L & T, Siemens or BCH make only. (a) DOL up to 5.0 H.P.	2.00	Each	8200.00	16400.00
21	Lowering of openwellmonoblock motor pump set at the depth of following ,complete with required. Nos. and size of casing pipes erected by means of proper chain pulley block & pipe wrenches after checking of threads of each pipe with coupling to take the load of the pump set and pipe assembly filled up with water (d)For Open well Horizontal submersible pump set for sump well (i) 1 HP to 5 HP	2.00	Per Job	1000.00	2000.00
22	Providing and erecting ISI marked PVC insulated PVC Sheathed Flat flexible Submersible copper cable approved make of following Size. (d) 3 Core x 6 Sq. mm.	300.00	Rmt	182.00	54600.00
23	Supplying, & erecting C.I. swing, check type non-return (Reflux) Valve -ISI marked suitable for following size (B) 65 mm dia.	2.00	Each	1740.00	3480.00
<b>Total Amount</b>					<b>1437645.80</b>
<b>Sub Estimate No. 6 :- Toilet Block</b>					
1	Excavation of foundation in soft morrum, soil of sand from 0.0 mtr. To 1.50 mtr. Depth including lifting and laying in designated place as instructed.	9.00	cu.mt.	96.60	869.40
2	Excavation of foundation in hard moram from 0.0 mtr. To 1.50 mtr. Depth including lifting and laying in designated place as	12.00	cu.mt.	103.50	1242.00

	instructed.				
3	Excavation of Foundation in Soft Rock from 0.0 mtr. to 1.50 mtr depth including lifting and laying in 90 mtr. lead area as instructed	8.00	cu.mt.	220.80	1766.40
4	Excavation of foundation in hard moram from 1.51 mtr. To 3.00 mtr. Depth including lifting and laying in designated place as instructed.	5.00	cu.mt.	117.30	586.50
5	Excavation of foundation in soft rock from 1.51 mtr. To 3.00 mtr. Depth including lifting and laying in designated place as instructed.	12.00	cu.mt.	255.30	3063.60
6	Filling of Plinth with using excavated usefull material partly and remaining murrum to be brought from out side in layer of 0.23 m thick including murrum and sprinkling of water, compaction etc. complete	16.00	cu mt	147.00	2352.00
7	Filling of Plinth in layers of 0.23 m thick including murrum and sprinkling of water, compaction etc. complete	100.00	cu mt	279.00	27900.00
8	Removal of Excavated Stuff within RMC limit as directed by Engineer-in-Charge	28.00	cu mt	171.00	4788.00
9	Foundation filling with CC work in proportion of 1:2:4 using 1.5 cm to 2.0 cm aggregate including Raming, Curing etc.	2.00	cu.mt.	3913.20	7826.40
10	Foundation filling with CC work in proportion of 1:3:6 using 1.5 cm to 2.0 cm aggregate including Raming, Curing etc.	3.00	cu.mt.	3360.00	10080.00
11	providing and laying Ready Mix cement concrete M-250 and curing complete including cost form work and excluding the cost of reinforcement for reinforced concrete work in FOUNDATION FOOTING base of columns and Mass concrete including providing & mixing plasticiser and Water Proofing Chemical in cement concrete including rate of labour material etc.	7.00	cu mt	5569.00	38983.00
12	Providing and laying Ready Mix cement concrete M-250 and finishing smooth with curing etc. complete including cost of formwork and excluding the cost of reinforcement for reinforced concrete work in COLUMN UP TO ALL FLOOR all heights for any cross sectional area including providing & mixing plasticiser and Water Proofing Chemical in cement including scaffolding etc. and complete rate of labour material etc.	3.00	cu mt	6096.00	18288.00

13	Providing and laying Ready Mix cement concrete M-250 and finishing smooth with curing etc. complete including cost of form work and excluding the cost of reinforcement for Plinth BEAMS having any cross sectional area for all floors all heights including scaffolding etc complete including providing & mixing plasticiser and Water Proofing Chemical in cement concrete including labour and material etc.	4.00	cu mt	6156.00	24624.00
14	Providing and laying Ready Mix cement concrete M-250 and finishing smooth with curing etc. complete including cost of form work and excluding the cost of reinforcement for R.C.C. work in BOTTOM SLAB having thickness of 10 cm and up to 15cm Complete including providing & mixing plasticiser and Water Proofing Chemical in cement concrete including labour and material etc.	4.00	cu mt	5297.00	21188.00
15	Providing and laying Ready Mix cement concrete M-250 and finishing smooth with curing etc. complete including cost of form work and excluding the cost of reinforcement for BEAMS having any cross sectional area for all floors all heights including scaffolding etc complete including providing & mixing plasticiser and Water Proofing Chemical in cement concrete including labour and material etc.	6.00	cu mt	6156.00	36936.00
16	Providing and laying Ready Mix cement concrete M-250 and finishing smooth with curing etc. complete including cost of form work and excluding the cost of reinforcement for R.C.C. work in SLAB having thickness of 10 cm and up to 15cm Complete including providing & mixing plasticiser and Water Proofing Chemical in cement concrete including labour and material etc.	4.00	cu mt	5875.00	23500.00
17	Providing and laying controlled cement concrete M-200 and finishing smooth with curing etc. complete including cost of form work and excluding the cost of reinforcement for R.C.C. LINTEL/ RUNNER WORK having thickness of 10 cm and up to 15cm for all floors all heights including scaffolding etc complete including labour and material etc.	1.00	cu mt	5538.00	5538.00

18	Providing and laying controlled cement concrete M-200 for RCC CHHAJJAS not exceeding 10 cm thickness including finishing the exposed surfaces with cement mortar 1:3(1-cement, 3-fine sand)to give a smooth and even surface including centering formwork and curing etc. all heights including scaffolding etc. complete including rate of labour material etc.	2.00	cu mt	5723.00	11446.00
19	Supplying, Cutting, Bedding, Binding and Hooking and binding with wire for RCC work Tor steel TMT round bar including all cost (Fe-500/500D)	2,400.00	Kg	57.00	136800.00
20	Proving 35 mm wide throating or plaster drip and moulding it to R.C.C. chajja etc. complete.	21.00	Rmt.	27.50	577.50
21	Decorative Groove Work in Cement Plaster	37.00	Rmt.	33.00	1221.00
22	Brick Masonary work using conventional burnt clay building bricks having crushing strength not less than 35 kg/sq cm foundation and plinth and all above in super-sub structure for all for including scaffolding including labour and material costing in cement mortar 1:6(1, cement and 6, fine sand)	11.00	cu.mt.	4196.00	46156.00
23	Providing and constructing half brick work using common burnt clay build bricks having crushing strength not less than 35 KG/SQ CM in foundation and plinth and up to floor two level in cement mortar 1:4 (1 cement : 4 fine sand) (B) Conventional	29.00	Sqmt.	411.00	11919.00
24	Cement Plaster Work 1.2 cm average thick using Cement:Mortar in proportion of 1:3 rough cast (without Niru Finishing) for All Floor and for any height.	104.00	Sqmt.	168.00	17472.00
25	20mm thick Sand Face Cement Plaster Work in which 1 plaster in proportion of 1:3 and 2nd plaster in proportion of 1:2 using Cement:Mortar with Spot finishing etc. complete (Note: Before carrying out Plaster work on RCC, required tipping work should be carried out as instructed)	85.00	Sqmt.	217.00	18445.00
26	Supply & fixing of Vitrified flooring work (1st quality)	11.00	Sqmt.	564.00	6204.00
27	Providing and laying Ceramic tiles 6mm thick in flooring on a bed of 12mm thick cement mortar 1:3 (1-cement : 3-coarse sand ) finishing with flush pointing in Colour cement.	4.00	Sqmt.	669.90	2679.60

28	Supply & Fixing of Glazed tiles (1st Quality) of required size in Cement Roga and joints to be filled with white cement after 12mm rough plaster in proportion of 1:3	32.00	Sqmt.	426.00	13632.00
29	Supply & Fixing of Granite Stone (Telephone Black Color) on wall after rough cast Cement Plaster in proportion of 1:3 and fixing grainage in Cement Paste	11.00	sqmt	2502.00	27522.00
30	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters: 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	5.00	Sqmt.	2015.75	10078.75
31	Supply & Fixing of Laminates 1mm of Approved Quality	9.00	Sqmt.	1148.00	10332.00
32	Extra rate for Cromium plated brass fittings for Door	5.00	Sqmt.	388.00	1940.00
33	Providing and fixing standard extruded section of size 63 mm x 38.10 mm x 1.20 mm(jindal section no- 2434 w wt. .643 kg/Rmt.) wth Colour AnodiesAlluminium frame for VENTILATION 5 mm thick frosted glass as detail etc. complete for ventilations	3.00	sqmt	1373.45	4120.35
34	Providing and fixing FRP frame size 125x65 mm and 35mm thick FRP shutter with wood grain raised panneled design finish shutter having extra reinforcement on sides & edges in Gel coat finish. The core of the shutter & frame is to be filed up with injected polyurethane foam done in situ alongwith embedded wooden pieces for stiffening & also taking hinges &fintures. The whole FRP frame & shutter is to be water proof weather proof, termite proof & resistance to mild acid/alkali. Rates are to be inclusive of S.S hinges with fastener sleeve &alluminium fixtures & fastenings.	11.00	sqmt	4189.00	46079.00
35	Enemal painting on door/window, iron door, iron grill or woodwork two coat with Primer	3.00	Sqmt	113.00	339.00
36	Plastic Imulsion Paint (Two coats) (Asian Paint, ICI, Dulux, Nerolac, Berger etc. of approved type) (with Prime Coat)	104.00	Sqmt.	126.00	13104.00
37	Apex Color work on Outer side of Wall (Two coats) (with Base Coat)	85.00	Sqmt.	99.00	8415.00

38	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc. consisting of following operations.(a) Applying and grouting slurry coat of neat cement using 2.75 kg/sqm. of cement admixed with proprietary water proofing compound confining to IS 2645 over the R.C.C. slab including cleaning the surface before treatment (b) Laying cement concrete using broken brick bats 25mm to 100mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) proprietary water proofing compound confirming to IS 2645 over 20 mm thick layer of cement mortar 1:5 (1 cement: 5 coarse sand) admixed with admixed with proprietary water proofing compound confirming to IS 2645 to required slope and treating similar surface to adjoined walls up to 300 mm. height including rounding of junctions of walls and slabs.(c) After two days of proper curing, applying a second coat of cement slurry admixed with proprietary water proofing compound conforming to IS:2645	20.00	sqmt	710.20	14204.00
<b>WATER SUPPLY AND SANITARY ITEMS</b>					
39	Providing and fixing wash down water closet(european type WCpan) with sit cover including jet spray and stop cock	6.00	No.	2230.00	13380.00
40	White porcelin wash basin 560/410mm indian make c.i. bracket with fitting cromium plated tope 25cm plastic waste pipe and 12mm pillar cock with comp.	4.00	No.	1397.00	5588.00
41	Providing & fixing C.P. Brass waste for washbasin. 32 mm Dia	100.00	No.	79.35	7935.00
42	Providing & fixing pillar tap, capstan head, screw down high pressure with screws shanks and back nuts. (A) 15 mm dia.	4.00	No.	360.70	1442.80
43	Providing & fixing screw down stop tap (A) 15 mm dia.	6.00	No.	250.00	1500.00
44	Providing and fixing chromium plate bottle trap with necessary coupling of approved quality for wash-basin.	4.00	No.	690.00	2760.00
45	Providing and fixing Urinal of approved quality including connection with trap and with integral longitudinal flush pipe and brass screw down stop tap.(A) 15mm dia.(A) Squating plate pattern white earthenware 550mm x 300mm.	6.00	No.	1269.47	7616.82



46	Provide & fixing 600 mm x 450mm Bevelled edge mirror of superior glass at all floor levels, mounted on 6mm .thick A.C. sheet or plywood sheet in P.V.C. box type frame & fixed to wooden plugs with C.P. brass screws and washers etc.	4.00	No.	611.10	2444.40
47	Providing and fixing PVC SWR Nahni trap IS 14375 for drain - 100 mm diameter with jali of the following nominal diameter of self cleansing design with C.I. screed down or hinged grating including the cost of cutting and making good of the wall.	6.00	NO.	351.00	2106.00
48	Providing, laying and jointing in true line and level 75mm diameter U.P.V.C (Type B) conforming to IS 13592-1992 with one end plain and other end socketed with rubber ring, & fittings conforming to ISI 14735-1999 of approved make for drainage system pipe line, pipe shall be jointed with each other with rubber lubricant, pipe shall be fixed on wall using of PVC clamp of the size 75 mm diameter x 114 mm length x 145 mm height at every 2000 mm center to center or shall be concealed in walls as directed including necessary fittings such as bends, shoes etc. including testing of pipes and joints and jointed with adhesive solvent cement including cost of all materials.	120.00	Rmt.	435.25	52230.00
49	Providing, laying and jointing in true line and level 110 diameter U.P.V.C (Type B) conforming to IS 13592-1992 with one end plain and other end socketed with rubber ring, & fittings conforming to ISI 14735-1999 of approved make for drainage system pipe line, pipe shall be jointed with each other with rubber lubricant, pipe shall be fixed on wall using of PVC clamp of the size 110 mm diameter x 149 mm length x 145 mm height at every 2000 mm center to center or shall be concealed in walls as directed including necessary fittings such as bends, shoes etc. including testing of pipes and joints and jointed with adhesive solvent cement including cost of all materials.	60.00	Rmt.	551.25	33075.00
50	Providing and fixing S.W. Gully trap with C.I. grating brick masonry chamber and water tight C.I. cover with frame of 300 x 300 mm size ( inside )with standard weight Square mouth Traps. (A) 100 X 100 mm Size – P type.	4.00	NO.	1254.75	5019.00

51	Constructing brick masonry chambrs for underground C I Inspection Chamber and bends with bricks having crushing strength not less than 35kg/sq cm in C.M. 1:5 C I cover with frame (light duty)455x610mm internal dimention total weight of cover with frame to be not less than 38kg RCC top slab with CC 1:2:4 mix (1,cement : 2,coarse sand: 4,graded aggregate 20 mm size) foundation concrete 1:5:10 inside plaster 15mm thick with C.M. 1:3 finish smooth with finishing coat of neat cement on walls and bed concrete etc (inside dimentions 500mm x 700mm x & 450mm deep) for single pipe lines with one of two inlets.	8.00	NO.	3408.30	27266.40
52	Providing and laying (to leve or slope)and jointing with stuff mixture of cement mortar in proportion 1:1 solt glazed stoneware pipes following normal diameters incl. testing of pipes and joints complete(B) 150mm stoneware pipes	150.00	R mt	245.70	36855.00
53	Providing and laying CC 1:5:10(1,cement : 5,fine sand : 10draded stone aggregate 40 mm normal size) Bedding for Stoneware Pipes of following internal diameter with necessaty formwork and curing complete (A) 150mm pipes	150.00	Rmt	157.50	23625.00
54	Providing and laying in trenches galvanized mild steel tubes (medium grade) of the following nominal bore, and tube fittings etc. complete. 25 mm.dia.	60.00	Rmt.	227.85	13671.00
55	Providing laying and jointing in true line and level 15mm dia. U.P.V.C. Pipe ( SCH- 40) for cold water including fittings make PRINCE / SUPREME / ASTRAL / FINOLEX or equivalent as approved by Engineer In Charge. Pipe shall be fixed on the wall with the help of clamp at every two metre C/C or shall be cancelled as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.	60.00	Rmt.	84.87	5092.20

56	Providing laying and jointing in true line and level 25mm dia. U.P.V.C. Pipe ( SCH- 40) for cold water including fittings make PRINCE / SUPREME / ASTRAL / FINOLEX or equivalent as approved by Engineer In Charge. Pipe shall be fixed on the wall with the help of clamp at every two metre C/C or shall be cancelled as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials. 25mm Dia.	50.00	Rmt.	107.29	5364.50
57	Providing laying and jointing in true line and level 32mm dia. U.P.V.C. Pipe ( SCH- 40) for cold water including fittings make PRINCE / SUPREME / ASTRAL / FINOLEX or equivalent as approved by Engineer In Charge. Pipe shall be fixed on the wall with the help of clamp at every two metre C/C or shall be cancelled as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.	50.00	Rmt.	139.00	6950.00
58	Providing and fixing C.P brass screw down bib tap at all floor levels, polished bright etc. complete as directed by the Engineer-in - charge. 15 mm. dia.	2.00	No.	218.29	436.58
59	Providing and fixing M.I. fisher union for wash basin or sink. 32 mm dia.	6.00	No.	87.33	523.98
60	Providing and fixing gun metal check or non return full way wheel valve at all floor levels, etc. complete. 15mm Dia.	2.00	No.	185.60	371.20
61	Providing and fixing gun metal check or non return full way wheel valve at all floor levels, etc. complete. 20mm Dia.	2.00	No.	207.78	415.56
62	Providing and fixing chromium plated brass half turn flush cock at all floor levels, of approved quality including fixing in pipe line etc. complete. 25 mm dia	6.00	No.	288.75	1732.50
63	Providing and fixing Gun metal check or non-return fullway wheel valve.(D) 32mm dia.	5.00	No.	367.70	1838.50
64	RCC precast cover with supply, fitting, fixing with complete as per specification 10 ton size 700/700/90mm.	4.00	Nos.	1179.00	4716.00
65	RCC precast frame with supply, fitting, fixing with complete as per specification 10 ton size 700/700/90mm.	4.00	Nos.	776.00	3104.00

66	Providing erecting and fixing double coated Syntex or equivalent PVC (ISI) mark water tank of required capacity each with all necessary fittings and connection etc. complete.	4,000.00	Liter	4.61	18440.00
<b>Electrical Work</b>					
67	Point wiring for Light / Bell with 2-1.5 sq.mm & earthwire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multistrand copper wires, in following type of pipe to be erected concealed in/ on surface on wall/ceiling complete with 6A Modular type switch / bell push & accessories and earth continuity of following type, erected on PVC / Metallic box, single mounting base frame covered with textured/metallic front plate modules erected on / in wall / ceiling as per pipe erected, with necessary Lamp holder /ceiling rose / H.D.Connector as directed.(a) with medium class Rigid PVC pipe and accessories Cat. III	10.00	No.	463.00	4630.00
68	Point wiring for Looped Plug with 6A Modular type switch & 5 pin socket erected on PVC / Metallic box, single mounting base frame covered with textured / metallic front plate modules erected on / in wall / ceiling with following type accessories Cat. III	2.00	No.	266.00	532.00
69	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 & Clamps with following dia of pipes, in approved manner as directed (b) 25 mm	60.00	Mtr	36.00	2160.00
70	Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected concealed in /flushed on wall/ceiling, with 1.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size (a) with medium class Rigid PVC pipe and accessories (a) 2 wire 1.5 sq. mm	40.00	Mtr	68.00	2720.00
71	(b) 2 wire 2.5 sq. mm	60.00	Mtr	90.00	5400.00

72	Supplying and erecting LED indoor fittings with LEDs of wattage 0.2 Watt to 0.5 Watt assembled on single MCPCB, with housing used as a heat sink shall be made of thick sheet Steel conforming to IS: 513/CRCA polyester powder coated and high U.V. & corrosion resistance with diffuser and/or Polycarbonate optics with company mark/name 120 to 300 V, Power Factor more than 0.9, THD < 10 %, CCT 4000 K to 6500K, Uniformity ratio >0.7, Luminaire efficacy > 85 lumens/watt, LED driver efficiency > 85 % as per Approved make LED used for luminaire. (Each fitting required LM-79 & LM-80 Certificates) (A) Tube Light with integral/non-integral driver. (iv) 22-24 Watts, Surge - 2KV, IP-20, conventional 4 feet Cat-III	6.00	Nos	480.00	2880.00
73	Supplying & erecting approved make low noise decorative exhaust fan having size 200mm with 1350 RPM with square frame ABS body with inbuilt lowers & square frame.	2.00	Nos	1990.00	3980.00
74	Supplying & erecting fan hook box of 10 mm M.S. round bar bounded to the RCC bars up to 50mm length each side and pierced through a 16 Gauge M.S. box / Heavy Duty PVC box complete erected concealed in Ceiling with necessary finishing.	1.00	No.	125.00	125.00
75	Providing 2.5mm. thick laminated acrylic sheet to cover the fan hook or Fan box.	1.00	No.	20.00	20.00
<b>Total Amount</b>					<b>940163.94</b>
<b>Sub Estimate No. 7 :-WEIGH BRIDGE</b>					
<b>Weigh Bridge</b>					
1	Excavation of foundation in soft morrum, soil of sand from 0.0 mtr. To 1.50 mtr. Depth including lifting and laying in designated place as instructed.	48.00	cu.mt.	96.60	4636.80
2	Excavation of foundation in hard moram from 0.0 mtr. To 1.50 mtr. Depth including lifting and laying in designated place as instructed.	111.00	cu.mt.	103.50	11488.50
3	Excavation of Foundation in Soft Rock from 0.0 mtr. to 1.50 mtr depth including lifting and laying in 90 mtr. lead area as instructed	80.00	cu.mt.	220.80	17664.00
4	Excavation of foundation in hard moram from 1.51 mtr. To 3.00 mtr. Depth including lifting and laying in designated place as instructed.	15.00	cu.mt.	117.30	1759.50

5	Excavation of foundation in soft rock from 1.51 mtr. To 3.00 mtr. Depth including lifting and laying in designated place as instructed.	34.00	cu.mt.	255.30	8680.20
6	Excavation of foundation in Hard rock from 1.51 mtr. To 3.00 mtr. Depth including lifting and laying in designated place as instructed.	24.00	cu.mt.	531.30	12751.20
7	Filling of Plinth with using excavated usefull material partly and remaining murrum to be brought from out side in layer of 0.23 m thick including murrum and sprinkling of water, compaction etc. complete	126.00	cu mt	147.00	18522.00
8	Filling of Plinth in layers of 0.23 m thick including murrum and sprinkling of water, compaction etc. complete	200.00	cu mt	279.00	55800.00
9	Removal of Excavated Stuff within RMC limit as directed by Engineer-in-Charge	185.00	cu mt	171.00	31635.00
10	Foundation filling with CC work in proportion of 1:2:4 using 1.5 cm to 2.0 cm aggregate including Raming, Curing etc.	34.00	cu.mt.	3913.20	133048.80
11	Foundation filling with Rubble Cement Mortar in proportion of 1:6 Cement:Mortar	33.00	cu.mt.	1493.00	49269.00
12	providing and laying Ready Mix cement concrete M-250 and curing complete including cost form work and excluding the cost of reinforcement for reinforced concrete work in FOUNDATION FOOTING base of columns and Mass concrete including providing & mixing plasticiser and Water Proofing Chemical in cement concrete including rate of labour material etc.	70.00	cu mt	5569.00	389830.00
13	Providing and laying Ready Mix cement concrete M-250 and finishing smooth with curing etc. complete including cost of formwork and excluding the cost of reinforcement for reinforced concrete work in COLUMN UP TO ALL FLOOR all heights for any cross sectional area including providing & mixing plasticiser and Water Proofing Chemical in cement including scaffolding etc. and complete rate of labour material etc.	29.00	cu mt	6096.00	176784.00

14	Providing and laying Ready Mix cement concrete M-250 and finishing smooth with curing etc. complete including cost of form work and excluding the cost of reinforcement for BEAMS having any cross sectional area for all floors all heights including scaffolding etc complete including providing & mixing plasticiser and Water Proofing Chemical in cement concrete including labour and material etc.	12.00	cu mt	6156.00	73872.00
15	Providing and laying Ready Mix cement concrete M-250 and curing complete including cost form work and excluding the cost of reinforcement for reinforced concrete work in WALL base of columns and Mass concrete including providing & mixing plasticiser and Water Proofing Chemical in cement concrete including rate of labour material etc.	65.00	cu mt	7102.00	461630.00
16	Supplying, Cutting, Bedding, Binding and Hooking and binding with wire for RCC work Tor steel TMT round bar including all cost (Fe-500/500D)	26,400.00	Kg	57.00	1504800.00
17	Brick Masonary work using conventional burnt clay building bricks having crushing strength not less than 35 kg/sq cm foundation and plinth and all above in super-sub structure for all for including scaffolding including labour and material costing in cement mortar 1:6 (1, cement and 6, fine sand)	21.00	cu mt	4196.00	88116.00
18	20mm thick Sand Face Cement Plaster Work in which 1 plaster in proportion of 1:3 and 2nd plaster in proportion of 1:2 using Cement:Mortar with Spot finishing etc. complete (Note: Before carrying out Plaster work on RCC, required tipping work should be carried out as instructed)	54.00	Sqmt.	217.00	11718.00
19	Apex Color work on Outer side of Wall (Two coats) (with Base Coat)	54.00	Sqmt.	99.00	5346.00
20	Iron work as per drawing and instruction including all	272.00	cu.mt.	86.00	23392.00
21	Enamel painting on door/window, iron door, iron grill or woodwork two coat with Primer	204.00	cu.mt.	113.00	23052.00

22	Supply and installation, commissioning digital weigh bridge including all necessary software and hardware required on finished foundation 01 No. UNIQUE, EVERY, EAGLE, APPLE, Matrix or equivalent make pit-less type fully Electronic weighbridge platform size 9 m x 3 meters for 50 MT capacity including applying oil paint, etc complete.	2.00	No.	915975.00	1831950.00
				<b>Total</b>	<b>4935745.00</b>
<b>Office Building</b>					
23	Excavation of Foundation in Hard Murrum from 0.0 mtr. to 1.50 mtr depth including lifting and laying in 90 mtr. lead area as instructed	8.00	cu.mt.	103.50	828.00
24	Excavation of foundation in soft rock from 0.0 mtr. To 1.50 mtr. Depth including lifting and laying in designated place as instructed.	8.00	cu.mt.	220.80	1766.40
25	Excavation of Foundation in Hard Rock with Breaker / Blasting /Gann from 0.0 mtr. to 1.50 mtr depth including lifting and laying in 90 mtr. lead area as instructed	8.00	cu.mt.	517.50	4140.00
26	Excavation of Foundation in Hard Rock with Breaker / Blasting / Gann from 1.51 mtr. to 3.0 mtr depth including lifting and laying in 90 mtr.	12.00	cu.mt.	531.30	6375.60
27	Filling of Plinth with using excavated usefull material partly and remaining murrum to be brought from out side in layer of 0.23 m thick including murrum and sprinkling of water, compaction etc. complete	8.00	cu mt	147.00	1176.00
28	Filling of Plinth in layers of 0.23 m thick including murrum and sprinkling of water, compaction etc. complete	100.00	cu mt	279.00	27900.00
29	Removal of Excavated Stuff within RMC limit as directed by Engineer-in-Charge	15.00	cu mt	171.00	2565.00
30	Foundation filling with CC work in proportion of 1:2:4 using 1.5 cm to 2.0 cm aggregate including Raming, Curing etc.	2.00	cu.mt.	3913.20	7826.40
31	Providing and laying cement concrete 1:3:6 (1 cement: 3 sand: 6 graded stone aggregates 20 nominal size) and curing complete including cost of formwork for foundation and plinth	3.00	cu mt	3360.00	10080.00



32	providing and laying Ready Mix cement concrete M-250 and curing complete including cost form work and excluding the cost of reinforcement for reinforced concrete work in FOUNDATION FOOTING base of columns and Mass concrete including providing & mixing plasticiser and Water Proofing Chemical in cement concrete including rate of labour material etc.	6.00	cu mt	5569.00	33414.00
33	Providing and laying Ready Mix cement concrete M-250 and finishing smooth with curing etc. complete including cost of formwork and excluding the cost of reinforcement for reinforced concrete work in COLUMN UP TO ALL FLOOR all heights for any cross sectional area including providing & mixing plasticiser and Water Proofing Chemical in cement including scaffolding etc. and complete rate of labour material etc.	3.00	cu mt	6096.00	18288.00
34	Providing and laying Ready Mix cement concrete M-250 and finishing smooth with curing etc. complete including cost of form work and excluding the cost of reinforcement for R.C.C. work in BOTTOM SLAB having thickness of 10 cm and up to 15cm Complete including providing & mixing plasticiser and Water Proofing Chemical in cement concrete including labour and material etc.	5.00	cu mt	5297.00	26485.00
35	Providing and laying Ready Mix cement concrete M-250 and finishing smooth with curing etc. complete including cost of form work and excluding the cost of reinforcement for Plinth BEAMS having any cross sectional area for all floors all heights including scaffolding etc complete including providing & mixing plasticiser and Water Proofing Chemical in cement concrete including labour and material etc.	2.00	cu mt	6156.00	12312.00
36	Providing and laying Ready Mix cement concrete M-250 and finishing smooth with curing etc. complete including cost of form work and excluding the cost of reinforcement for BEAMS having any cross sectional area for all floors all heights including scaffolding etc complete including providing & mixing plasticiser and Water Proofing Chemical in cement concrete including labour and material etc.	2.00	cu mt	6156.00	12312.00

37	Providing and laying Ready Mix cement concrete M-250 and finishing smooth with curing etc. complete including cost of form work and excluding the cost of reinforcement for R.C.C. work in SLAB having thickness of 10 cm and up to 15cm Complete including providing & mixing plasticiser and Water Proofing Chemical in cement concrete including labour and material etc.	5.00	Cum	5875.00	29375.00
38	Providing and laying controlled cement concrete M-200 and finishing smooth with curing etc. complete including cost of form work and excluding the cost of reinforcement for R.C.C. LINTEL/ RUNNER WORK having thickness of 10 cm and up to 15cm for all floors all heights including scaffolding etc complete including labour and material etc.	1.00	Cum	5538.00	5538.00
40	Providing TMT-FE-500 bar reinforcement for RCC work including bending & placing in position complete up to floor two level.	1,893.00	Kg.	57.00	107901.00
41	Brick Masonary work using conventional burnt clay building bricks having crushing strength not less than 35 kg/sq cm foundation and plinth and all above in super-sub structure for all for including scaffolding including labour and material costing in cement mortar 1:6 (1, cement and 6, fine sand)	14.00	Cum	4196.00	58744.00
42	Providing and constructing half brick work using common burnt clay build bricks having crushing strength not less than 35 KG/SQ CM in foundation and plinth and up to floor two level in cement mortar 1:4 (1 cement : 4 fine sand) (B) Conventional	2.00	Cum	411.00	822.00
43	Cement Plaster Work 1.2 cm average thick using Cement:Mortar in proportion of 1:3 rough cast (without Niru Finishing) for All Floor and for any height.	63.00	Sqmt.	168.00	10584.00
44	20mm thick Sand Face Cement Plaster Work in which 1 plaster in proportion of 1:3 and 2nd plaster in proportion of 1:2 using Cement:Mortar with Spot finishing etc. complete (Note: Before carrying out Plaster work on RCC, required tipping work should be carried out as instructed)	117.00	Sqmt.	217.00	25389.00

45	Applying two coats of Birla (White Cement based) or Asian ( acrylic lapy putty) or equivalent & 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 and sand papered smooth.	63.00	Sqmt.	47.40	2986.20
46	Proving 35 mm wide throating or plaster drip and moulding it to R.C.C. chajja etc. complete.	26.00	Rmt.	27.50	715.00
47	Decorative Groove Work in Cement Plaster	26.00	Rmt.	33.00	858.00
48	Providing and laying green polished kota stone slab flooring over 20 mm (average) thick base of cement mortar 1:6 (1cement: 6 sand) laid over and joined with grey cement slurry including and polishing etc. complete. (A) 25 mm thick	28.00	Sqmt.	791.00	22148.00
49	Providing and laying polished marble stone slab 20 mm in risers of steps,dedo and pillars laid on 10 mm thick cement mortar 1:6(1cement: 6 sand) and jointed with grey cement slurry including and polishing etc. complete.	5.00	Sqmt.	1380.75	6903.75
50	Supply & Fixing of Granite Stone (Telephone Black Color) on wall after rough cast Cement Plaster in proportion of 1:3 and fixing grainage in Cement Paste	2.00	sqmt	2502.00	5004.00
51	Providing and fixing M.S. Grills of required pattern to wooden frames of windows etc. at all floor levels with MS flats at required spacing and frame around square or round bars with round headed bolts and nuts or by screw including Priming coat of Read lead paint etc. complete (A) plain grill for all floors. In windows.	892.00	KG	68.78	61351.76
52	Supply & Fixing of Polished of Kota Stone of required size & thickness as instructed to fixed in Platform / CupBoard etc	3.00	Sqmt.	744.00	2232.00

53	Providing and fixing 30 mm thick factory made PVC rigid foam paneled door shutters manufactured by M/s. Rajshri or equivalent made from M.S. tube of 19 gauge (1.016mm) thickness, size 19 x 19 mm for styles and 15 x 15 mm for top and bottom rails, covered with heat moulded PVC "C" channel of 5 mm thick sheet and 30 x 50 mm wide to from styles and 5 mm thick and 75 mm wide PVC sheet for top rail, lock rail and bottom rail on either side and 5 mm thick, 20 mm wide cross PVC sheet as gap insert for top rail and bottom rail, paneling of 5 mm thick PVC sheet fitted in the M.S. frame welded/ sealed to the style and rails with 5 x 30 mm PVC sheet beading on either side and joined together with solvent cement adhesive etc., completed as per manufacturers specification and direction of Engineer-in-charge fixed to frames with 4 Nos. 125MM Stainless Steel butt hinges with necessary screws. (cupboard shutters)	3.00	Sqmt.	1960.00	5880.00
54	Providing & constructing of Sandwich type Kitchen Platform of 60cm. width and 80 cm. height with Granite slab (18 to 20mm) on top resting on one side polished kotah stone 25 mm thick top and two 25mm thick polished kotah stone vertical support fixing by making grooves including 75 mm wide facing patti with external edge of the patti shall be finished with Quarter round molding& mirror polished etc. completed complete as per drawing and specification without stainless steel sink including necessary cutting for sink & making hole for gas pipe and fixing P.V.C. band of 25 mm dia per sink size as directed by an Engineer in charge.	6.00	Rmt.	1949.00	11694.00
55	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters: 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	7.00	SQ M	2015.75	14110.25
56	Supply & Fixing of Laminates 1mm of Approved Quality	14.00	SQ M	1148.00	16072.00
57	Extra rate for Cromium plated brass fittings for Door	7.00	SQ M	388.00	2716.00

58	Supplying and fixing alluminium frame 62.50 x 25 mm. size and 37.50 x 18mm size shutter with sliding frame 2-track of standard compeny etc. complete.	6.00	SQ M	4088.00	24528.00
59	Providing and fixing standard extruded section of size 63 mm x 38.10 mm x 1.20 mm(jindal section no- 2434 w wt. .643 kg/Rmt.) wth Colour AnodiesAlluminium frame for VENTILATION 5 mm thick frosted glass as detail etc. complete for ventilations	1.00	sqmt	1373.45	1373.45
60	Enemal painting on door/window, iron door, iron grill or woodwork two coat with Primer	6.00	Sqmt	113.00	678.00
61	Plastic Imulsion Paint (Two coats) (Asian Paint, ICI, Dulux, Nerolac, Berger etc. of approved type) (with Prime Coat)	63.00	SQ M	126.00	7938.00
62	Apex Color work on Outer side of Wall (Two coats) (with Base Coat)	117.00	SQ M	99.00	11583.00
63	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc. consisting of following operations.(a) Applying and grouting slurry coat of neat cement using 2.75 kg/sqm. of cement admixed with proprietary water proofing compound confining to IS 2645 over the R.C.C. slab including cleaning the surface before treatment (b) Laying cement concrete using broken brick bats 25mm to 100mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) proprietary water proofing compound confirming to IS 2645 over 20 mm thick layer of cement mortar 1:5 (1 cement: 5 coarse sand) admixed with admixed with proprietary water proofing compound confirming to IS 2645 to required slope and treating similar surface to adjoined walls up to 300 mm. height including rounding of junctions of walls and slabs.(c) After two days of proper curing, applying a second coat of cement slurry admixed with proprietary water proofing compound conforming to IS:2645	31.00	SQ M	710.20	22016.20

64	Providing, laying and jointing in true line and level 75mm diameter U.P.V.C (Type B) conforming to IS 13592-1992 with one end plain and other end socketed with rubber ring, & fittings conforming to ISI 14735-1999 of approved make for drainage system pipe line, pipe shall be jointed with each other with rubber lubricant, pipe shall be fixed on wall using of PVC clamp of the size 75 mm diameter x 114 mm length x 145 mm height at every 2000 mm center to center or shall be concealed in walls as directed including necessary fittings such as bends, shoes etc. including testing of pipes and joints and jointed with adhesive solvent cement including cost of all materials.	7.00	Rmt.	435.25	3046.75
65	Providing and fixing to wall, ceiling and floor galvanised Mild steel tubes (Medium grade) of the following nominal bore, tube fitting and clamps including making good the wall ceiling and floor.(F) 50mm	50.00	Rmt.	558.60	27930.00
66	Providing erecting and fixing double coated Syntex or equivalent PVC(ISI) mark water tank of required capacity each with all necessary fittings and connection etc complete. 2000 lit. capacity on Terrace	2,000.00	Ltr.	4.61	9220.00
67	Providing and fixing of Urinal of approved quality including connection with trap and with integral longitudinal flush pipe (A) Squating plate pattern white earthen ware 550 mm x 300 mm	2.00	No.	1269.47	2538.94
<b>Electrical Work</b>					
68	Point wiring for Light / Bell with 2-1.5 sq.mm & earthwire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multistrand copper wires, in following type of pipe to be erected concealed in/ on surface on wall/ceiling complete with 6A Modular type switch / bell push & accessories and earth continuity of following type, erected on PVC / Metallic box, single mounting base frame covered with textured/metallic front plate modules erected on / in wall / ceiling as per pipe erected, with necessary Lamp holder /ceiling rose / H.D.Connector as directed.(a) with medium class Rigid PVC pipe and accessories Cat. III	8.00	No.	463.00	3704.00

69	Point wiring for FAN with 2-1.5 sq.mm & earthwire of 1.5 sq.mm (Green) both are of .ISI marked 1.1 KV Grade FRLS PVC insulated multistrand copper wires, in following type of pipe to be erected concealed in / flushed on wall/ceiling complete with 6A Modular type switch and hum free EME four or more step type electronic fan regulator with separately mounted and accessories with earth continuity of following type erected on PVC / Metallic box, single mounting base frame covered with textured/metallic front plate modules erected on / in wall / ceiling as per pipe erected. with necessary ceiling rose / H.D.Connector as directed. (a) with medium class Rigid PVC pipe and accessories Cat. III	3.00	No.	663.00	1989.00
70	Point wiring for Individual Plug with & earthwire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multistrand copper wires, in following type of to be erected concealed in / on surface of wall / ceiling complete with Modular type switch & 5 pin Plug erected on PVC / Metallic box covered with appropriate front plate modules erected on / in wall / ceiling as per pipe erected with following type of accessories. [I] For 6A Plug with 2-1.5 sq.mm Cu. Wire (a) with medium class Rigid PVC pipe and accessories Cat. III	2.00	No.	492.00	984.00
71	[II] For 16A Plug with 2-2.5 sq.mm Cu. Wire (a) with medium class Rigid PVC pipe and accessories Cat. III	2.00	No.	742.00	1484.00
72	Point wiring for Looped Plug with 6A Modular type switch & 5 pin socket erected on PVC / Metallic box, single mounting base frame covered with textured / metallic front plate modules erected on / in wall / ceiling with following type accessories Cat. III	3.00	No.	266.00	798.00
73	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 & Clamps with following dia of pipes, in approved manner as directed (b) 25 mm	80.00	Mtr	36.00	2880.00

74	Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected concealed in /flushed on wall/ceiling, with 1.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size (a) with medium class Rigid PVC pipe and accessories (a) 2 wire 1.5 sq. mm	60.00	Mtr	68.00	4080.00
75	(b) 2 wire 2.5 sq. mm	90.00	Mtr	90.00	8100.00
76	Providing and erecting XLPE(IS:7098)(I)-88 ISI armoured cable multistrand 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. (C) 4 core 6 Sq. mm	110.00	Mtr	592.00	65120.00
77	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 (A)50 mm outer dia	110.00	Mtr	72.00	7920.00
78	Providing & erecting Switch board for Computer or electric apparatus consisting of following items in single board erected on PVC / Metal board with 3 mm thick PC (Polycarbonate) / Acrylic sheet erected as directed 1 no. 6A/16A universal plug-switch combined. 4 nos. 6A Switch 4 nos. 6A 5 pin Plug [B] For Modular Type Accessories Cat. III	2.00	Nos	1262.00	2524.00
79	Supplying and erecting LED indoor fittings with LEDs of wattage 0.2 Watt to 0.5 Watt assembled on single MCPCB, with housing used as a heat sink shall be made of thick sheet Steel conforming to IS: 513/CRCA polyester powder coated and high U.V. & corrosion resistance with diffuser and/or Polycarbonate optics with company mark/name 120 to 300 V,Power Factor more than 0.9, THD < 10 %, CCT 4000 K to 6500K, Uniformity ratio >0.7, Luminaire efficacy> 85 lumens/watt , LED driver efficiency > 85 % as per Approved make LED used for luminaire. (Each fitting required LM-79 & LM-80 Certificates) (A) Tube Light with integral/non-integral driver.(iv) 22-24 Watts, Surge - 2KV,IP-20, conventional 4 feet Cat-III	6.00	Nos	480.00	2880.00



80	Providing & erecting Approved make Power Saving Ceiling Fan of decorative type with double ball bearing ISI mark with Condenser 230 volt A.C. 50 Hz 1200 mm sweep complete having 3 blades with aluminium blades with , canopy & 30 cms. down rod erected with 24/ 0.2, 3 core flexible wire with earthing.(Make & Sample shall be approved by Engineer in charge)	3.00	No.	2510.00	7530.00
81	Supplying and erecting 19 / 20 mm. nominal bore Medium Class M.S. Pipe down rod erected duly painted for fan complete with necessary 24/ 0.20, 3 core flexible wire with earthing.	3.00	No.	125.00	375.00
82	Supplying & erecting fan hook box of 10 mm M.S. round bar bounded to the RCC bars up to 50mm length each side and pierced through a 16 Gauge M.S. box / Heavy Duty PVC box complete erected concealed in Ceiling with necessary finishing.	3.00	No.	125.00	375.00
83	Providing 2.5mm.thick laminated acrylic sheet to cover the fan hook or Fan box.	3.00	No.	20.00	60.00
84	Providing and erecting Sheet Steel powder coated MCB distribution board - flush / surface mounted fitted with busbar, neutral link, earth bar and DIN rail, Conforms to IS 8623-1 & 3, IEC 61439-1 & 3 without MCB to house appropriate nos. of MCBs.(The DBs should be used of same company of MCB to be used) suitable for (N) Three phase 8 way SS Double door for horizontal single phase outgoing	1.00	No.	3986.00	3986.00
85	Miniature circuit breaker single pole 6A to 32A 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 Cat.III	4.00	Nos	130.00	520.00
86	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 (c)63 Amp. Cat.III	1.00	No.	835.00	835.00
87	Approved make ELCBs / RCCBs conforming to IS: 12640 and having sensitivity of 30 mA and Short Circuit withstand capacity of 6 KA and suitable for operation on 3 phase and neutral 415V. having characteristic of quick action & tripping with all advance feature & do not incorporate any electronic component for following Max. rating erected as directed.(iii) 63 Amps. FP	1.00	No.	3550.00	3550.00

88	Providing and erecting water cooler having storage capacity 80Ltr. & cooling capacity 40 Ltr.per hour @ an ambient temp of 45° C. The outlet temp. of the water should drop by 15° C within a hour, The water cooler should be comprising of hermetically sealed compressor, fan motor, condensing unit, water tank surrounded by evaporating coil, thermostats, relay etc. complete with necessary inlet & outlet connection. The body of water cooler will be made from Stainless Steel. °	1.00	No.	48300.00	48300.00
89	Providing & erecting 240 V MCB double pole switch for lighting Load (C Curve) having 10 KA breaking capacity & confirms to IS : 8828 in existing box having following capacity (A) 6 to 32 Amp.	2.00	No.	350.00	700.00
<b>Total Amount</b>					<b>836038.70</b>
<b>Sub Estimate No. 8 :- STREET LIGHT</b>					
1	Supplying and erecting approved make Octagonal pole made from HR sheet steel. The pole should be made as per IS. and shall be coated with hot dip galvanizing as per IS 2629/2633/4759, suitable suspend local wind speed with integral Junction box consist of terminal plate of min 6mm Hylam sheet, standard profile 35mmX7.5mm Din-Rail for MCB Mounting, stud type terminal and arrangement for cable termination to be erected on foundation as per details given by manufacturer considering site requirement. (E) 7 Mtr. Long 70 mm Top X 135 mm bottom dia, 3 mm thickness with 225mmX225mmX16mm base plate, 4-M20 Bolts and 600mm long J-Bolt.	28.00	Ea.	13332.00	373296.00
2	Providing and erecting street light pole bracket comprising main B Class GI pipe of 4.2 cm/require outside dia. complete with suitable B Class G.I sleeve tubing of approx. 45cms.length and suitable for 76.5 mm / 80mm. / require size pole top having sufficient fasteners for fixing the brackets and having spread of 1 mtr. length with suitable rise as per site condition & suitable welded stiffener reducer and nipple with check nut complete painted with one coat of Red oxide / PU base primer and two coats of Aluminium / PU paint. paint with following nos of arms. [A] Single Arm bracket 1 Mtr	18.00	Ea.	716.00	12888.00

3	Providing and erecting street light pole bracket comprising main B Class GI pipe of 4.2 cm/require outside dia. complete with suitable B Class G.I sleeve tubing of approx. 45cms.length and suitable for 76.5 mm / 80mm. / require size pole top having sufficient fasteners for fixing the brackets and having spread of 1 mtr. length with suitable rise as per site condition & suitable welded stiffener reducer and nipple with check nut complete painted with one coat of Red oxide / PU base primer and two coats of Aluminium / PU paint. paint with following nos of arms. [B] Double Arm bracket 1 Mtr	10.00	Ea.	968.00	9680.00
4	Providing 1:2:4 cement concrete foundation & 70 % PCC from bottom including excavation for the pole of size 60 x 60 x 120 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 7.5 & 8/8.5 mtr pole)	28.00	Ea.	1510.00	42280.00
5	Miniature circuit breaker single pole 6A to 32A suitable to operate on 240 V A.C. system and having overload and short circuit tripping elements and breaking capacity 10 KA to be erected in existing M.S. box confirming to IS 8828/1996 with ISI mark. Cat. II	28.00	Ea.	315.00	8820.00

6	Supplying and erecting LED street light / Flood light fittings with High power White LEDs wattage of 1Watt 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 company mark/name engraved or embossed 120 to 300 V, Power Factor more than 0.95, THD < 10 %, CCT 3000 K to 5700K, Uniformity ratio >0.45, Luminaire efficacy > 100 lumens/watt . LED driver efficiency > 85 %.CREE / OSRAM / PHILIPS Lumileds / NICHIA / SEOUL/ BridgeLux (U.S.A.) make LED used for luminaire. (Fittings required LM-79 & 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.)(A) Street Light (IP-65), Surge protection - 4KV integral and 10 kv non integral, Light must have 440VAC line supply protection. It should withstand 48 hours for 440VAC line supply. (d) above 36 to 48 watts - CAT III	38.00	Ea.	4325.00	164350.00
7	Supplying & erecting XLPE (IS : 7098)(I)-88 ISI marked unarmoured Copper cable 1.1 KV. Grade with necessary clamps on wall of following size. (E) 3 core 2.5 sqmm	342.00	Rmt	158.00	54036.00
<b>Section Pillar</b>					
8	Supplying & erecting approved make IP 55 grade Company fabricated Timer Panel of following capacity for switch On-Off street lights on time scheduling basis made from 16G CRCA sheet duly epoxy power painted inside and outside with hinged doors and locking arrangement consisting of suitable size of 4 Pole MCB and 4 pole contactor (cat-III)with analog time switch, auto manual switch of same make and suitable input and output Bakelite terminals and with door earthing approved by Engineer in charge. (C) 63 Amp	2.00	Ea.	19930.00	39860.00
<b>CABLES</b>					

14	Providing and erecting XLPE (IS : 7098)(I)-88 ISI marked armoured cable multistrand Copper conductor for 1.1 KV to be laid on wall with necessary clamps or in existing cable trench / pipe at road crossing or floor of following size of cables. (A) 4 core 4 sqmm	900.00	Mtr.	422.00	379800.00
15	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 (A)50 mm outer dia	900.00	Mtr.	72.00	64800.00
16	Providing and erecting iron clad cable route marker duly marked with ELE.CABLE of size 23 cms. X 12 cms. Flushed with ground in cement foundation as directed by Engineer in charge.	14.00	Ea.	280.00	3920.00
19	Soldieries 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. (A) 4 Sq. mm	324.00	Ea.	9.00	2916.00
<b>EARTHING</b>					
20	Providing and erecting Hot Deep Galvanized iron wire 8 to 16 S.W.G.	100.00	Kg.	90.00	9000.00

21	Supplying & erecting earth pit of minimum bore dia.150mm size approved make 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 50mm having 80-200 Micron galvanising, Inner pipe dia of 25 mm having 200-250 Micron galvanising, connection terminal dia of 12mm 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.(approved make OEM has to submit test certificate) & having back filling compound of (B) Inner chemical (CCM Compound)- Resistivity:- 0.2 W/ 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 must be submitted. (a) For Electrical Installation up to 440V in normal soilLength of pipe - 1 MtrBack filling compound - 1 Nos Bag of 15 Kg.	2.00	Ea.	5363.00	10726.00
<b>Total Amount</b>					<b>1176372.00</b>
<b>Sub Estimate No. 9 :- RCC PLATFORM</b>					
1	Excavation of Foundation in Hard Murrum from 0.0 mtr. to 1.50 mtr depth including lifting and laying in 90 mtr. lead area as instructed	270.00	cu.mt.	103.50	27945.00
2	Construction of granular sub base by providing close graded material mixing in a mechanical plant at OMC, spreading in uniform layers with mortar grader on prepared surface and compaction with vibratory roller to achive the desire density complete	90.00	cu.mt.	584.00	52560.00
3	Construction of granular sub base by providing close graded material mixing in a mechanical plant at OMC, spreading in uniform layers with mortar grader on prepared surface and compaction with vibratory roller to achive the desire density complete	90.00	cu.mt.	497.00	44730.00
4	Foundation filling with CC work in proportion of 1:2:4 using 1.5 cm to 2.0 cm aggregate including Raming, Curing etc.	60.00	cu.mt.	3913.20	234792.00

5	Providing and laying Ready Mix cement concrete M-250 and finishing smooth with curing etc. complete including cost of form work and excluding the cost of reinforcement for R.C.C. work in BOTTOM SLAB having thickness of 10 cm and up to 15cm Complete including providing & mixing plasticiser and Water Proofing Chemical in cement concrete including labour and material etc.	168.00	cu.mt.	5297.00	889896.00
6	providing and laying Ready Mix cement concrete M-250 and curing complete including cost form work and excluding the cost of reinforcement for reinforced concrete work in WALL base of columns and Mass concrete including providing & mixing plasticiser and Water Proofing Chemical in cement concrete including rate of labour material etc.	21.00	cu.mt.	7102.00	149142.00
7	Supplying, Cutting, Bedding, Binding and Hooking and binding with wire for RCC work Tor steel TMT round bar including all cost (Fe-500/500D)	34,020.00	Kg.	57.00	1939140.00
<b>Total Amount</b>					<b>3338205.00</b>
<b>Sub Estimate No. 10 :-Ele. &amp;Genrater Room</b>					
1	Excavation of foundation in soft morrum, soil of sand from 0.0 mtr. To 1.50 mtr. Depth including lifting and laying in designated place as instructed.	15.00	cu.mt.	96.60	1449.00
2	Excavation of foundation in hard moram from 0.0 mtr. To 1.50 mtr. Depth including lifting and laying in designated place as instructed.	34.00	cu.mt.	103.50	3519.00
3	Excavation of Foundation in Soft Rock from 0.0 mtr. to 1.50 mtr depth including lifting and laying in 90 mtr. lead area as instructed	26.00	cu.mt.	220.80	5740.80
4	Excavation of foundation in hard moram from 1.51 mtr. To 3.00 mtr. Depth including lifting and laying in designated place as instructed.	8.00	cu.mt.	117.30	938.40
5	Excavation of foundation in soft rock from 1.51 mtr. To 3.00 mtr. Depth including lifting and laying in designated place as instructed.	18.61	0.00	255.30	4751.13
6	Filling of Plinth with using excavated usefull material partly and remaining murrum to be brought from out side in layer of 0.23 m thick including murrum and sprinkling of water, compaction etc. complete	42.00	cu mt	147.00	6174.00

7	Filling of Plinth in layers of 0.23 m thick including murrum and sprinkling of water, compaction etc. complete	100.00	cu mt	279.00	27900.00
8	Removal of Excavated Stuff within RMC limit as directed by Engineer-in-Charge	52.00	cu mt	171.00	8892.00
9	Foundation filling with CC work in proportion of 1:2:4 using 1.5 cm to 2.0 cm aggregate including Raming, Curing etc.	3.00	cu.mt.	3913.20	11739.60
10	Foundation filling with CC work in proportion of 1:3:6 using 1.5 cm to 2.0 cm aggregate including Raming, Curing etc.	5.00	cu.mt.	3360.00	16800.00
11	providing and laying Ready Mix cement concrete M-250 and curing complete including cost form work and excluding the cost of reinforcement for reinforced concrete work in FOUNDATION FOOTING base of columns and Mass concrete including providing & mixing plasticiser and Water Proofing Chemical in cement concrete including rate of labour material etc.	7.00	cu mt	5569.00	38983.00
12	Providing and laying Ready Mix cement concrete M-250 and finishing smooth with curing etc. complete including cost of formwork and excluding the cost of reinforcement for reinforced concrete work in COLUMN UP TO ALL FLOOR all heights for any cross sectional area including providing & mixing plasticiser and Water Proofing Chemical in cement including scaffolding etc. and complete rate of labour material etc.	5.00	cu mt	6096.00	30480.00
13	Providing and laying Ready Mix cement concrete M-250 and finishing smooth with curing etc. complete including cost of form work and excluding the cost of reinforcement for R.C.C. work in BOTTOM SLAB having thickness of 10 cm and up to 15cm Complete including providing & mixing plasticiser and Water Proofing Chemical in cement concrete including labour and material etc.	7.00	cu mt	5297.00	37079.00



14	Providing and laying Ready Mix cement concrete M-250 and finishing smooth with curing etc. complete including cost of form work and excluding the cost of reinforcement for Plinth BEAMS having any cross sectional area for all floors all heights including scaffolding etc complete including providing & mixing plasticiser and Water Proofing Chemical in cement concrete including labour and material etc.	8.00	cu mt	6156.00	49248.00
15	Providing and laying Ready Mix cement concrete M-250 and finishing smooth with curing etc. complete including cost of form work and excluding the cost of reinforcement for BEAMS having any cross sectional area for all floors all heights including scaffolding etc complete including providing & mixing plasticiser and Water Proofing Chemical in cement concrete including labour and material etc.	5.00	cu mt	6156.00	30780.00
16	Providing and laying Ready Mix cement concrete M-250 and finishing smooth with curing etc. complete including cost of form work and excluding the cost of reinforcement for R.C.C. work in SLAB having thickness of 10 cm and up to 15cm Complete including providing & mixing plasticiser and Water Proofing Chemical in cement concrete including labour and material etc.	9.00	cu.mt.	5875.00	52875.00
17	Providing and laying controlled cement concrete M-200 and finishing smooth with curing etc. complete including cost of form work and excluding the cost of reinforcement for R.C.C. LINTEL/ RUNNER WORK having thickness of 10 cm and up to 15cm for all floors all heights including scaffolding etc complete including labour and material etc.	1.00	cu mt	5538.00	5538.00
18	Providing and laying controlled cement concrete M-200 for RCC CHHAJJAS not exceeding 10 cm thickness including finishing the exposed surfaces with cement mortar 1:3(1-cement, 3-fine sand)to give a smooth and even surface including centering formwork and curing etc. all heights including scaffolding etc. complete including rate of labour material etc.	4.00	cu mt	5723.00	22892.00
19	Supplying, Cutting, Bedding, Binding and Hooking and binding with wire for RCC work Tor steel TMT round bar including all cost (Fe-500/500D)	3,289.00	Kg	57.00	187473.00

20	Brick Masonary work using conventional burnt clay building bricks having crushing strength not less than 35 kg/sq cm foundation and plinth and all above in super-sub structure for all for including scaffolding including labour and material costing in cement mortar 1:6 (1, cement and 6, fine sand)	34.00	cu.mt.	4196.00	142664.00
21	Cement Plaster Work 1.2 cm average thick using Cement:Mortar in proportion of 1:3 rough cast (without Niru Finishing) for All Floor and for any height.	170.00	Sqmt.	168.00	28560.00
22	20mm thick Sand Face Cement Plaster Work in which 1 plaster in proportion of 1:3 and 2nd plaster in proportion of 1:2 using Cement:Mortar with Spot finishing etc. complete (Note: Before carrying out Plaster work on RCC, required tipping work should be carried out as instructed)	225.00	Sqmt.	217.00	48825.00
23	Applying two coats of Birla (White Cement based) or Asian ( acrylic lapy putty) or equivalent & 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 and sand papered smooth.	170.00	Sqmt.	47.40	8058.00
24	Providing 35 mm wide throating or plaster drip and moulding it to R.C.C. chajja etc. complete.	30.00	Rmt.	27.50	825.00
25	Decorative Groove Work in Cement Plaster	30.00	Rmt.	33.00	990.00
26	Providing and laying green polished kota stone slab flooring over 20 mm (average) thick base of cement mortar 1:6 (1cement: 6 sand) laid over and joined with grey cement slurry including and polishing etc. complete. (A) 25 mm thick	55.00	Sqmt.	791.00	43505.00
27	Supplying and fixing alluminium frame 62.50 x 25 mm. size and 37.50 x 18mm size shutter with sliding frame 2-track of standard compeny etc. complete.	6.00	Sqmt.	4088.00	24528.00
28	Providing & fixing approved quality & designed rolling shutters with necessary top cover, fittings, single coat red lead, double coat silver or oil paint (with bearing)	8.00	Sqmt.	2056.00	16448.00
29	Plastic Imulsion Paint (Two coats) (Asian Paint, ICI, Dulux, Nerolac, Berger etc. of approved type) (with Prime Coat)	170.00	Sqmt.	126.00	21420.00
30	Apex Color work on Outer side of Wall (Two coats) (with Base Coat)	225.00	Sqmt.	99.00	22275.00

31	Supply & Fixing of Granite Stone (Telephone Black Color) on wall after rough cast Cement Plaster in proportion of 1:3 and fixing grainage in Cement Paste	4.00	sqmt	2502.00	10008.00
32	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters: 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	8.00	Sqmt	2012.75	16102.00
33	Supply & Fixing of Laminates 1mm of Approved Quality	15.00	Sqmt	1148.00	17220.00
34	Extra rate for Cromium plated brass fittings for Door	8.00	Sqmt	388.00	3104.00
35	Grill work for doors - windows etc. as per design on site with fitting & fixing.	135.00	Kg.	81.00	10935.00
36	Enemal painting on door/window, iron door, iron grill or woodwork two coat with Primer	6.00	Sqmt	113.00	678.00
37	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc. consisting of following operations.(a) Applying and grouting slurry coat of neat cement using 2.75 kg/sqm. of cement admixed with proprietary water proofing compound confining to IS 2645 over the R.C.C. slab including cleaning the surface before treatment (b) Laying cement concrete using broken brick bats 25mm to 100mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) proprietary water proofing compound confirming to IS 2645 over 20 mm thick layer of cement mortar 1:5 (1 cement: 5 coarse sand) admixed with admixed with proprietary water proofing compound confirming to IS 2645 to required slope and treating similar surface to adjoined walls up to 300 mm. height including rounding of junctions of walls and slabs.(c) After two days of proper curing, applying a second coat of cement slurry admixed with proprietary water proofing compound conforming to IS:2645	53.00	Sqmt.	710.20	37640.60

38	Providing, laying and jointing in true line and level 110 diameter U.P.V.C (Type B) conforming to IS 13592-1992 with one end plain and other end socketed with rubber ring, & fittings conforming to ISI 14735-1999 of approved make for drainage system pipe line, pipe shall be jointed with each other with rubber lubricant, pipe shall be fixed on wall using of PVC clamp of the size 110 mm diameter x 149 mm length x 145 mm height at every 2000 mm center to center or shall be concealed in walls as directed including necessary fittings such as bends, shoes etc. including testing of pipes and joints and jointed with adhesive solvent cement including cost of all materials.	7.00	Rmt.	551.25	3858.75
39	Constructing brick masonry chambers for underground C I Inspection Chamber and bends with bricks having crushing strength not less than 35kg/sq cm in C.M. 1:5 C I cover with frame (light duty)455x610mm internal dimension total weight of cover with frame to be not less than 38kg RCC top slab with CC 1:2:4 mix (1,cement : 2,coarse sand: 4,graded aggregate 20 mm size) foundation concrete 1:5:10 inside plaster 15mm thick with C.M. 1:3 finish smooth with finishing coat of neat cement on walls and bed concrete etc (inside dimensions 500mm x 700mm x & 450mm deep) for single pipe lines with one of two inlets.	1.00	NO.	3408.30	3408.30
40	Providing and laying (to level or slope)and jointing with stuff mixture of cement mortar in proportion 1:1 soft glazed stoneware pipes following normal diameters incl. testing of pipes and joints complete(B) 150mm stoneware pipes	20.00	Rmt.	245.70	4914.00
41	Providing and laying CC 1:5:10(1,cement : 5,fine sand : 10graded stone aggregate 40 mm normal size) Bedding for Stoneware Pipes of following internal diameter with necessary formwork and curing complete (A) 150mm pipes	20.00	Rmt.	157.50	3150.00
42	RCC precast cover with supply, fitting, fixing with complete as per specification 10 ton size 700/700/90mm.	1.00	Nos.	1179.00	1179.00
43	RCC precast frame with supply, fitting, fixing with complete as per specification 10 ton size 700/700/90mm.	1.00	Nos.	776.00	776.00
<b>Electrical Work</b>					

44	Point wiring for Light / Bell with 2-1.5 sq.mm & earthwire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multistrand copper wires, in following type of pipe to be erected concealed in/ on surface on wall/ceiling complete with 6A Modular type switch / bell push & accessories and earth continuity of following type, erected on PVC / Metallic box, single mounting base frame covered with textured/metallic front plate modules erected on / in wall / ceiling as per pipe erected, with necessary Lamp holder / ceiling rose / H.D.Connector as directed.(a) with medium class Rigid PVC pipe and accessories Cat. III	12.00	No.	463.00	5556.00
45	Point wiring for FAN with 2-1.5 sq.mm & earthwire of 1.5 sq.mm (Green) both are of .ISI marked 1.1 KV Grade FRLS PVC insulated multistrand copper wires, in following type of pipe to be erected concealed in / flushed on wall/ceiling complete with 6A Modular type switch and hum free EME four or more step type electronic fan regulator with separately mounted and accessories with earth continuity of following type erected on PVC / Metallic box, single mounting base frame covered with textured/metallic front plate modules erected on / in wall / ceiling as per pipe erected. with necessary ceiling rose / H.D.Connector as directed. (a) with medium class Rigid PVC pipe and accessories Cat. III	6.00	No.	663.00	3978.00
46	Point wiring for Individual Plug with & earthwire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multistrand copper wires, in following type of to be erected concealed in / on surface of wall / ceiling complete with Modular type switch & 5 pin Plug erected on PVC / Metallic box covered with appropriate front plate modules erected on / in wall / ceiling as per pipe erected with following type of accessories. [I] For 6A Plug with 2-1.5 sq.mm Cu. Wire (a) with medium class Rigid PVC pipe and accessories Cat. III	4.00	No.	492.00	1968.00
47	[II] For 16A Plug with 2-2.5 sq.mm Cu. Wire (a) with medium class Rigid PVC pipe and accessories Cat. III	4.00	No.	742.00	2968.00

48	Point wiring for Looped Plug with 6A Modular type switch & 5 pin socket erected on PVC / Metallic box, single mounting base frame covered with textured / metallic front plate modules erected on / in wall / ceiling with following type accessories Cat. III	4.00	No.	266.00	1064.00
49	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 & Clamps with following dia of pipes, in approved manner as directed (b) 25 mm	60.00	Mtr	36.00	2160.00
50	Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected concealed in /flushed on wall/ceiling, with 1.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size (a) with medium class Rigid PVC pipe and accessories (a) 2 wire 1.5 sq. mm	80.00	Mtr	68.00	5440.00
51	(b) 2 wire 2.5 sq. mm	120.00	Mtr	90.00	10800.00
52	Supplying and erecting LED indoor fittings with LEDs of wattage 0.2 Watt to 0.5 Watt assembled on single MCPCB, with housing used as a heat sink shall be made of thick sheet Steel conforming to IS: 513/CRCA polyester powder coated and high U.V. & corrosion resistance with diffuser and/or Polycarbonate optics with company mark/name 120 to 300 V, Power Factor more than 0.9, THD < 10 %, CCT 4000 K to 6500K, Uniformity ratio >0.7, Luminaire efficacy > 85 lumens/watt , LED driver efficiency > 85 % as per Approved make LED used for luminaire. (Each fitting required LM-79 & LM-80 Certificates) (A) Tube Light with integral/non-integral driver.(iv) 22-24 Watts, Surge - 2KV, IP-20, conventional 4 feet Cat-III	12.00	Nos	480.00	5760.00
53	Providing & erecting Approved make Power Saving Ceiling Fan of decorative type with double ball bearing ISI mark with Condenser 230 volt A.C. 50 Hz 1200 mm sweep complete having 3 blades with aluminium blades with , canopy & 30 cms. down rod erected with 24/ 0.2, 3 core flexible wire with earthing.(Make & Sample shall be approved by Engineer in charge)	6.00	No.	2510.00	15060.00

54	Supplying and erecting 19 / 20 mm. nominal bore Medium Class M.S. Pipe down rod erected duly painted for fan complete with necessary 24/ O.20, 3 core flexible wire with earthing.	6.00	No.	125.00	750.00
55	Supplying & erecting fan hook box of 10 mm M.S. round bar bounded to the RCC bars up to 50mm length each side and pierced through a 16 Gauge M.S. box / Heavy Duty PVC box complete erected concealed in Ceiling with necessary finishing.	6.00	No.	125.00	750.00
56	Providing 2.5mm.thick laminated acrylic sheet to cover the fan hook or Fan box.	6.00	No.	20.00	120.00
57	Providing and erecting Sheet Steel powder coated MCB distribution board - flush / surface mounted fitted with busbar, neutral link, earth bar and DIN rail, Conforms to IS 8623-1 & 3, IEC 61439-1 & 3 without MCB to house appropriate nos. of MCBs.(The DBs should be used of same company of MCB to be used) suitable for (B) three phase incoming and single phase horizontal type outgoing Per phase isolation type (PPI) - (b) sheet steel double door - (i)4 way	1.00	No.	2732.00	2732.00
58	Miniature circuit breaker single pole 6A to 32A 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 Cat.III	6.00	Nos	130.00	780.00
59	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 (a) 6 to 32 Amp.	1.00	No.	695.00	695.00
60	Approved make ELCBs / RCCBs conforming to IS: 12640 and having sensitivity of 30 mA and Short Circuit withstand capacity of 6 KA and suitable for operation on 3 phase and neutral 415V. having characteristic of quick action & tripping with all advance feature & do not incorporate any electronic component for following Max. rating erected as directed. (ii) 40Amps. FP CAT III	1.00	No.	3080.00	3080.00
61	Providing & erecting 240 V MCB double pole switch for lighting Load (C Curve) having 10 KA breaking capacity & confirms to IS : 8828 in existing box having following capacity (A) 6 to 32 Amp.	3.00	No.	350.00	1050.00

62	Supplying & erecting earth pit of minimum bore dia.150mm size approved make Earthing Electrode consisting Flat-in-Pipe Technology as per IS 3043-1987 made of corrosion free G.I.Pipes having Outer pipe dia of 50mm having 80-200 Micron galvanising, Inner pipe dia of 25 mm having 200-250 Micron galvanising, connection terminal dia of 12mm with constant ohmic value surrounded by highly conductive compound with high charge dissipation suitable for following type of applications. (c) For Electrical Installation covering Transformer Neutrals, Lightning arrester Earthing, A.C.Plant& Sensitive Computer System(like Automation, SCADA) i.e independent Earthing in normal soil. Length of Pipe : 3.00 mtrs Back filling Compound :2 nos Bags of 25 Kg.	6.00	Nos.	9919.00	59514.00
63	Providing and erecting required size HOT deep Galvanised iron strip for earthing of H.T. , OCB/ ACB/ Transformer LT panel board, Motors etc. using proper clamp. 25mm x 3mm thick	100.00	Kg	90.00	9000.00



64	Providing & erecting weather proof, dust & vermin proof, floor mounted front operated indoor type cubical panel board having IP-54 protection made from 14 SWG thick CRC M.S. sheet for outer body & doors, 16 SWG thick CRC M.S. sheet for internal partitions with necessary supporting angles, flats including cutting, bending, drilling, welding, riveting with internal partitions & cable alley as per requirements & instruction of engineer-in-charge with erection of supplied switch gears, BUSBARS, with suitable size of inter connecting PVC copper wire / copper-aluminium strips, rubber grommets, rib, bakelite control fuses for measuring instruments, earth bus & earth bolts, foundation flange - bolts-base Plates, sufficient nos. of hinged doors, handles with locking arrangement and rubber gasket complete. The Panel shall be painted with epoxy powder coating. (The rates excludes the cost of switchgears, bus bars, inter connecting mains & 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.(A) The standard companies switch gear shall be used and only manufacturers at CPRI approved factory and shall be certified by that company whose switch gears are used after fabrication for beneficial use (i) with 350mm depth	12.00	SqMt	17410.00	208920.00
65	Supplying and erecting Multifunction meter. Accuracy Class 1.0 CT Secondary - Site Selectable 1A / 5A Flush Mounting - 96x96mm Parameter:- V, A, F, PF, kW, kVA, Old energy, On and Run hours, site selectable kWh/ kVAh	6.00	Nos.	9404.00	56424.00
66	Supplying and erecting approved make set of indicator lamps of LED type lamp, lens cover, Bakelite holder complete erected with necessary connections.	24.00	Nos.	50.00	1200.00
67	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	30.00	Nos.	320.00	9600.00

68	Approved make Four pole moulded case circuit breaker having breaking capacity ICU of 35 KA. at 415 V. having Normal current rating up to 200A.with variable Thermal & magnetic release suitable to work on A.C.supply 50 c/s. with all internal connections & complete erected in existing 16 G.M.S.housing ICS=100% of ICU only Cat III	6.00	Nos.	18950.00	113700.00
69	Approved make Four pole moulded case circuit breaker having breaking capacity ICU of 25 KA. at 415 V, having normal current rating up to 25 A to 100A. with Fixed thermal & magnetic release suitable to work on A.C. supply 50 c/s. with all internal connections & complete erected in existing 16 G.M.S. housing. ICS=100% of ICU only Cat III	6.00	Nos.	7210.00	43260.00
70	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 supports /insulators, main cable socket to each bar, erected in existing cubical panel with necessary connections. (B) Suitable for 200 Amp. capacity	6.00	Mtr.	3000.00	18000.00
71	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 (a) 6 to 32 Amp. Cat.III	2.00	Nos.	695.00	1390.00
72	(b)40 Amp. Cat.III	2.00	Nos.	780.00	1560.00
73	(c)63 Amp. Cat.III	3.00	Nos.	860.00	2580.00
74	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 (B) for 40 Amp. Cat.III	1.00	Nos.	755.00	755.00
75	(C) for 63 Amp. Cat.III	2.00	Nos.	835.00	1670.00

76	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. (a) One wire 1.00 sq. mm	50.00	Mtr.	12.00	600.00
77	(b) One wire 1.50 sq. mm	100.00	Mtr.	18.00	1800.00
78	(c) One wire 2.50 sq. mm	100.00	Mtr.	29.00	2900.00
79	(e) One wire 6.00 sq. mm	80.00	Mtr.	62.00	4960.00
80	(f) One wire 10.00 sq. mm	50.00	Mtr.	101.00	5050.00
81	Supplying & erecting single phase approved make industrial exhaust fan suitable for medium duty ring mounted low noise operation suitable for medium duty having following dia size and maximum speed in RPM [E] 450 mm dia 1400 RPM Cat-II	4.00	Nos.	4600.00	18400.00
82	Providing recess in wall or window frame suitable for erection of Exhaust fan complete with plastering and colour washing to match the colour of the wall or window complete with expanded metal in order to render the fitting in accessible and the room water-proof.	4.00	Nos.	220.00	880.00
83	Providing and erecting XLPE(IS:7098)(I)-88 ISI armoured cable multistrand 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. (B) 4 core 16 Sq. mm	200.00	Mtr	1149.00	229800.00
84	Providing and erecting XLPE(IS:7098)(I)-88 ISI armoured cable multistrand 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. (A) 4 core 10 Sq. mm	120.00	Mtr	786.00	94320.00
85	Supplying & erecting approved make Four Pole 415V change over switch interior for panel mounting with operating mechanism A.C.23 duty conforming to IS for (D)200A	3.00	Nos	14300.00	42900.00
<b>Total Amount</b>					<b>2008217.58</b>
<b>Sub Estimate No. 11 :- Service Area</b>					
1	Excavation of foundation in soft morrum, soil of sand from 0.0 mtr. To 1.50 mtr. Depth including lifting and laying in designated place as instructed.	11.00	cu.mt.	96.60	1062.60

2	Excavation of foundation in hard moram from 0.0 mtr. To 1.50 mtr. Depth including lifting and laying in designated place as instructed.	26.00	cu.mt.	103.50	2691.00
3	Excavation of Foundation in Soft Rock from 0.0 mtr. to 1.50 mtr depth including lifting and laying in 90 mtr. lead area as instructed	19.00	cu.mt.	220.80	4195.20
4	Excavation of foundation in hard moram from 1.51 mtr. To 3.00 mtr. Depth including lifting and laying in designated place as instructed.	8.00	cu.mt.	117.30	938.40
5	Excavation of foundation in soft rock from 1.51 mtr. To 3.00 mtr. Depth including lifting and laying in designated place as instructed.	19.00	cu.mt.	255.30	4850.70
6	Filling of Plinth with using excavated usefull material partly and remaining murrum to be brought from out side in layer of 0.23 m thick including murrum and sprinkling of water, compaction etc. complete	34.00	cu mt	147.00	4998.00
7	Filling of Plinth in layers of 0.23 m thick including murrum and sprinkling of water, compaction etc. complete	100.00	cu mt	279.00	27900.00
8	Removal of Excavated Stuff within RMC limit as directed by Engineer-in-Charge	48.00	cu mt	171.00	8208.00
9	Foundation filling with CC work in proportion of 1:2:4 using 1.5 cm to 2.0 cm aggregate including Raming, Curing etc.	3.00	cu.mt.	3913.20	11739.60
10	Foundation filling with CC work in proportion of 1:3:6 using 1.5 cm to 2.0 cm aggregate including Raming, Curing etc.	5.00	cu.mt.	3360.00	16800.00
11	providing and laying Ready Mix cement concrete M-250 and curing complete including cost form work and excluding the cost of reinforcement for reinforced concrete work in FOUNDATION FOOTING base of columns and Mass concrete including providing & mixing plasticiser and Water Proofing Chemical in cement concrete including rate of labour material etc.	8.00	cu mt	5569.00	44552.00
12	Providing and laying Ready Mix cement concrete M-250 and finishing smooth with curing etc. complete including cost of formwork and excluding the cost of reinforcement for reinforced concrete work in COLUMN UP TO ALL FLOOR all heights for any cross sectional area including providing & mixing plasticiser and Water Proofing Chemical in cement including scaffolding etc. and complete rate of labour material	6.00	cu mt	6096.00	36576.00

	etc.				
13	Providing and laying Ready Mix cement concrete M-250 and finishing smooth with curing etc. complete including cost of form work and excluding the cost of reinforcement for R.C.C. work in BOTTOM SLAB having thickness of 10 cm and up to 15cm Complete including providing & mixing plasticiser and Water Proofing Chemical in cement concrete including labour and material etc.	7.00	cu mt	5297.00	37079.00
14	Providing and laying Ready Mix cement concrete M-250 and finishing smooth with curing etc. complete including cost of form work and excluding the cost of reinforcement for BEAMS having any cross sectional area for all floors all heights including scaffolding etc complete including providing & mixing plasticiser and Water Proofing Chemical in cement concrete including labour and material etc.	10.00	cu mt	6156.00	61560.00
15	Providing and laying Ready Mix cement concrete M-250 and finishing smooth with curing etc. complete including cost of form work and excluding the cost of reinforcement for R.C.C. work in SLAB having thickness of 10 cm and up to 15cm Complete including providing & mixing plasticiser and Water Proofing Chemical in cement concrete including labour and material etc.	14.00	cu.mt.	5875.00	82250.00
16	Supplying, Cutting, Bedding, Binding and Hooking and binding with wire for RCC work Tor steel TMT round bar including all cost (Fe-500/500D)	4,992.00	Kg	57.00	284544.00
17	Brick Masonary work using conventional burnt clay building bricks having crushing strength not less than 35 kg/sq cm foundation and plinth and all above in super-sub structure for all for including scaffolding including labour and material costing in cement mortar 1:6 (1, cement and 6, fine sand)	20.00	cu.mt.	4196.00	83920.00
18	Cement Plaster Work 1.2 cm average thick using Cement:Mortar in proportion of 1:3 rough cast (without Niru Finishing) for All Floor and for any height.	128.00	Sqmt.	168.00	21504.00

19	20mm thick Sand Face Cement Plaster Work in which 1 plaster in proportion of 1:3 and 2nd plaster in proportion of 1:2 using Cement:Mortar with Spot finishing etc. complete (Note: Before carrying out Plaster work on RCC, required tipping work should be carried out as instructed)	123.00	Sqmt.	217.00	26691.00
20	Applying two coats of Birla (White Cement based) or Asian ( acrylic lapy putty) or equivalent & 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 and sand papered smooth.	128.00	Sqmt.	47.40	6067.20
21	Providing up to floor two level precast concrete Ventilation Block as per drawing. 1:2:4 mix (1 cement :2 coarse sand :4 graded stone aggregate 6 mm nominal size) reinforced with 1.60mm dia mild steel wire including roughening cleaning, fixing and finishing in cement mortar 1:3 and curing complete.100 mm thick	1.00	Sqmt.	534.60	534.60
22	Plastic Imulsion Paint (Two coats) (Asian Paint, ICI, Dulux, Nerolac, Berger etc. of approved type) (with Prime Coat)	251.00	Sqmt.	126.00	31626.00
23	Providing, laying and jointing in true line and level 110 diameter U.P.V.C (Type B) conforming to IS 13592-1992 with one end plain and other end socketed with rubber ring, & fittings conforming to ISI 14735-1999 of approved make for drainage system pipe line, pipe shall be jointed with each other with rubber lubricant, pipe shall be fixed on wall using of PVC clamp of the size 110 mm diameter x 149 mm length x 145 mm heigh at every 2000 mm center to center or shall be concealed in walls as directed including necessary fittings such as bends, shoes etc. including testing of pipes and joints and jointed with adhesive solvent cement including cost of all materials.	7.00	Rmt.	551.25	3858.75

24	Constructing brick masonry chambrs for underground C I Inspection Chamber and bends with bricks having crushing strength not less than 35kg/sq cm in C.M. 1:5 C I cover with frame (light duty)455x610mm internal dimention total weight of cover with frame to be not less than 38kg RCC top slab with CC 1:2:4 mix (1,cement : 2,coarse sand: 4,graded aggregate 20 mm size) foundation concrete 1:5:10 inside plaster 15mm thick with C.M. 1:3 finish smooth with finishing coat of neat cement on walls and bed concrete etc (inside dimentions 500mm x 700mm x & 450mm deep) for single pipe lines with one of two inlets.	1.00	NO.	3408.30	3408.30
25	Providing and laying (to leve or slope)and jointing with stuff mixture of cement mortar in proportion 1:1 solt glazed stoneware pipes following normal diameters incl. testing of pipes and joints complete(B) 150mm stoneware pipes	20.00	R mt	245.70	4914.00
26	Providing and laying CC 1:5:10(1,cement : 5,fine sand : 10draded stone aggregate 40 mm normal size) Bedding for Stoneware Pipes of following internal diameter with necessaty formwork and curing complete (A) 150mm pipes	20.00	Rmt	157.50	3150.00
27	RCC precast cover with supply, fitting, fixing with complete as per specification 10 ton size 700/700/90mm.	1.00	Nos.	1179.00	1179.00
28	RCC precast frame with supply, fitting, fixing with complete as per specification 10 ton size 700/700/90mm.	1.00	Nos.	776.00	776.00
<b>Electrical Work</b>					
29	Point wiring for Light / Bell with 2-1.5 sq.mm &earthwire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multistrand copper wires, in following type of pipe to be erected concealed in/ on surface on wall/ceiling complete with 6A Modular type switch / bell push & accessories and earth continuity of following type, erected on PVC / Metallic box, single mounting base frame covered with textured/metallic front plate modules erected on / in wall / ceiling as per pipe erected, with necessary Lamp holder /ceiling rose / H.D.Connector as directed.(a) with medium class Rigid PVC pipe and accessories Cat. III	10.00	No.	463.00	4630.00

30	Point wiring for FAN with 2-1.5 sq.mm & earthwire of 1.5 sq.mm (Green) both are of .ISI marked 1.1 KV Grade FRLS PVC insulated multistrand copper wires, in following type of pipe to be erected concealed in / flushed on wall/ceiling complete with 6A Modular type switch and hum free EME four or more step type electronic fan regulator with separately mounted and accessories with earth continuity of following type erected on PVC / Metallic box, single mounting base frame covered with textured/metallic front plate modules erected on / in wall / ceiling as per pipe erected. with necessary ceiling rose / H.D.Connector as directed. (a) with medium class Rigid PVC pipe and accessories Cat. III	6.00	No.	663.00	3978.00
31	Point wiring for Individual Plug with & earthwire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multistrand copper wires, in following type of to be erected concealed in / on surface of wall / ceiling complete with Modular type switch & 5 pin Plug erected on PVC / Metallic box covered with appropriate front plate modules erected on / in wall / ceiling as per pipe erected with following type of accessories. [I] For 6A Plug with 2-1.5 sq.mm Cu. Wire (a) with medium class Rigid PVC pipe and accessories Cat. III	3.00	No.	492.00	1476.00
32	[II] For 16A Plug with 2-2.5 sq.mm Cu. Wire (a) with medium class Rigid PVC pipe and accessories Cat. III	3.00	No.	742.00	2226.00
33	Point wiring for Looped Plug with 6A Modular type switch & 5 pin socket erected on PVC / Metallic box, single mounting base frame covered with textured / metallic front plate modules erected on / in wall / ceiling with following type accessories Cat. III	6.00	No.	266.00	1596.00
34	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 & Clamps with following dia of pipes, in approved manner as directed (b) 25 mm	60.00	Mtr	36.00	2160.00



35	Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected concealed in /flushed on wall/ceiling, with 1.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size (a) with medium class Rigid PVC pipe and accessories (a) 2 wire 1.5 sq. mm	110.00	Mtr	68.00	7480.00
36	(b) 2 wire 2.5 sq. mm	90.00	Mtr	90.00	8100.00
37	Providing and erecting XLPE(IS:7098)(I)-88 ISI armoured cable multistrand 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. (A-1) 4 core 4 Sq. mm	90.00	Mtr	422.00	37980.00
38	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 (A)50 mm outer dia	90.00	Mtr	72.00	6480.00
39	Supplying and erecting LED indoor fittings with LEDs of wattage 0.2 Watt to 0.5 Watt assembled on single MCPCB, with housing used as a heat sink shall be made of thick sheet Steel conforming to IS: 513/CRCA polyester powder coated and high U.V. & corrosion resistance with diffuser and/or Polycarbonate optics with company mark/name 120 to 300 V,Power Factor more than 0.9, THD < 10 %, CCT 4000 K to 6500K, Uniformity ratio >0.7, Luminaire efficacy> 85 lumens/watt , LED driver efficiency > 85 % as per Approved make LED used for luminaire. (Each fitting required LM-79 & LM-80 Certificates) (A) Tube Light with integral/non-integral driver.(iv) 22-24 Watts, Surge - 2KV,IP-20, conventional 4 feet Cat-III	10.00	Nos	480.00	4800.00

40	Providing & erecting Approved make Power Saving Ceiling Fan of decorative type with double ball bearing ISI mark with Condenser 230 volt A.C. 50 Hz 1200 mm sweep complete having 3 blades with aluminium blades with , canopy & 30 cms. down rod erected with 24/ 0.2, 3 core flexible wire with earthing.(Make & Sample shall be approved by Engineer in charge)	2.00	No.	2510.00	5020.00
41	Supplying and erecting 19 / 20 mm. nominal bore Medium Class M.S. Pipe down rod erected duly painted for fan complete with necessary 24/ 0.20, 3 core flexible wire with earthing.	2.00	No.	125.00	250.00
42	Supplying & erecting fan hook box of 10 mm M.S. round bar bounded to the RCC bars up to 50mm length each side and pierced through a 16 Gauge M.S. box / Heavy Duty PVC box complete erected concealed in Ceiling with necessary finishing.	6.00	No.	125.00	750.00
43	Providing 2.5mm.thick laminated acrylic sheet to cover the fan hook or Fan box.	6.00	No.	20.00	120.00
44	Providing and erecting Sheet Steel powder coated MCB distribution board - flush / surface mounted fitted with busbar, neutral link, earth bar and DIN rail, Conforms to IS 8623-1 & 3, IEC 61439-1 & 3 without MCB to house appropriate nos. of MCBs.(The DBs should be used of same company of MCB to be used) suitable for (B) three phase incoming and single phase horizontal type outgoing Per phase isolation type (PPI) - (b) sheet steel double door - (i)4 way	1.00	No.	2732.00	2732.00
45	Miniature circuit breaker single pole 6A to 32A 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 Cat.III	6.00	Nos	130.00	780.00
46	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 (a) 6 to 32 Amp.	1.00	No.	695.00	695.00

47	Approved make ELCBs / RCCBs conforming to IS: 12640 and having sensitivity of 30 mA and Short Circuit withstand capacity of 6 KA and suitable for operation on 3 phase and neutral 415V. having characteristic of quick action & tripping with all advance feature & do not incorporate any electronic component for following Max. rating erected as directed. (ii) 40Amps. FP CAT III	1.00	No.	3080.00	3080.00
48	Providing & erecting 240 V MCB double pole switch for lighting Load (C Curve) having 10 KA breaking capacity & conforms to IS : 8828 in existing box having following capacity (A) 6 to 32 Amp.	3.00	No.	350.00	1050.00
<b>Total Amount of Compound Wall</b>					<b>912956.35</b>
<b>Sub Estimate No. 12 :- FIRE HYDRANT SYSTEM</b>					
1	Supplying, installation, testing and commissioning of Electric driven Main Fire Pump suitable for automatic operation and consisting of following, complete in all respects, as required : (a) Horizontal type, multistage, centrifugal, split casing pump of cast iron body & bronze impeller with stainless steel shaft, mechanical seal conforming to IS 1520. (b) Suitable HP Squirrel cage induction motor, TEFC, synchronous speed 1500 RPM, suitable for operation on 415 volts, 3 phase 50 Hz, AC supply with IP 55 protection for enclosure, horizontal foot mounted type with Class-'F' insulation, conforming to IS-325. (c) M.S. fabricated Common base plate, coupling, coupling guard, foundation bolts etc. as required. (d) Suitable cement concrete foundation duly plastered with antivibration pads 2280 lpm at 56 m Head	1.00	Nos.	330204.00	330204.00

2	<p>Supplying, installation, testing and commissioning of diesel engine driven main fire pump suitable for automatic operation and consisting of following, complete in all respects, as required : (Diesel Driven Pump)</p> <p>Horizontal type, multistage, centrifugal pump of cast of iron body and bronze impeller with stainless steel shaft, mechanical seal conforming to IS 1520. - Suitable HP, 1500 RPM water cooled with radiator, diesel engine conforming to relevant IS standard complete with auto starting mechanism, 12 /24 volts electric starting equipment, diesel tank, exhaust pipe extended upto 10 m outside pump house duly insulated with 50 mm thick glass wool with 1.0 mm thick aluminium sheet cladding, residential silencer, instruments and protection as per standard specification, stop solenoid for auto stop in the event of fault with audio indications, painted with post office red colour etc. as required. - M.S fabricated, common base plate, coupling, coupling guard, foundation bolts etc. as required. Suitable cement concrete foundation duly plastered and with anti vibration pads. 2280 lpm at 56 m Head</p>	1.00	Nos.	607647.00	607647.00
3	<p>Supplying, installation, testing and commissioning of electric driven pressurisation pump suitable for autoatic operation and consisting of following, complete in all respects, as required : (Jockey Pump)</p> <p>Horizontal type, multistage, centrifugal pump of cast iron body and bronze impeller with stainless steel shaft, mechanical seal conforming to IS : 1520. Suitable HP squirell cage induction motor TEFC type suitable for operation on 415 volts, 3 phase 50 Hz AC supply with IP 55 class of protection for enclosure, horizontal foot mounted type with Class-'F' insulation, conforming to IS : 325. M.S.fabricated Common base plate, coupling, coupling guard, foundation bolts etc. as required. Suitable cement concrete foundation duly plastered and with anti vibration pads. 180 lpm at 56 m Head</p>	1.00	Nos.	81196.00	81196.00

4	<p>Fabrication, supply, Insallation testing &amp; commissioning of Electrical control panel of cubical construction, floor mounted type, fabricated out of 2mm thick CRCA sheet, compartmentalised with hinged lockable doors, dust and vermin proof, powder coated of approved shade after 7 tank treatment process, cable alley, interconnection with suitable size copper conductor cable/solid copper strip, having switchgears and accessories, mountings and internal wiring, earth terminals, numbering etc. complete in all respect, suitable for main fire pump, pressurisation pump &amp; diesel pump set complete as per CPWD specification with following in coming and Outgoings, suitable for operation on 415V, 3 phase, 50Hz Ac Supply with enclosure protection class IP 42 as required : Incomings 800A, 50kA 4 Pole MCCB, Ics=100% Icu Rating Digital Voltmeter 0-500V with selector switch Ammeter (0-800 A) with selector swtich&amp; CTs etc. LED type RYB phase indicating lamps, ON, OFF, trip indicating lamps Set of Copper Bus Bar 1000Amps Outgoings ( Note : All outgoing feeders for pumps should have digital Ammeter with selector switches, and LED type ON, OFF, trip indicating lamps) Main Fire Pump 250 Amp, 50kA TPN MCCB, Ics=100% Icu, with fully automatic Star/Delta starter suitable for 100 hp pump with overload protection, current sensing type single phase preventor complete with all acceessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation. - 2 sets Jockey Pump 125 Amp, 50kA TPN MCCB, Ics=100% Icu, with Suitable HP fully automatic Star/Delta starter with overload protection, current sensing type single phase preventor complete with all acceessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation. - 2 sets DIESEL ENGINE CONTROL Control for diesel engine comprising Automatic/Manual selctor switch &amp; 3 attempts starting device, timers and relays as required, push buttons, start/stop in manual mode Indicating lamp for high/ Low Lub. Oil pressure, High Water Temp and Engine on indication Battery charger suitbale for 12V/24 V DC with boost</p>	1.00	Nos.	575711.00	575711.00
---	---	------	------	-----------	-----------

	and trickle selector switch, 0-30 V DC volt meter, and 0-20 A DC Ammeter All standard relays and accessories for automatic operation of diesel engine System Controller. Designing, Supply, Installation, Testing and commissioning of system controller to control operation of main electric fire pump, diesel pump, Pressurization pump, Terrace pump in sequence as per specification consisting of relays, timers. Sensors, annunciation window for fault indication, complete as per specification.				
5	Providing laying, testing & commissioning of 'C' class heavy duty MS Pipe conforming to IS 1239/3589 i/c fittings like elbows, tees, flanges, tapers, nuts bolts, gaskets etc. in ground including welding, excavation & providing cement concrete blocks as supports, anticorrosive treatment with coaltar/asphalt tape as per IS 10221, refilling the trench etc. of following sizes complete as required. 200 mm dia	100.00	Rmt.	3169.00	316900.00
6	Providing laying, testing & commissioning of 'C' class heavy duty MS Pipe conforming to IS 1239/3589 i/c fittings like elbows, tees, flanges, tapers, nuts bolts, gaskets etc. in ground including welding, excavation & providing cement concrete blocks as supports, anticorrosive treatment with coaltar/asphalt tape as per IS 10221, refilling the trench etc. of following sizes complete as required. 100 mm dia	200.00	Rmt.	2100.00	420000.00
7	Providing, laying, testing & commissioning of 'C' class heavy duty MS pipe conforming to IS 3589/IS 1239 including Welding, fittings like elbows, tees, flanges, tapers, nuts bolts, gaskets etc. and fixing the pipe on the wall/ceiling with suitable clamp/support frame and painting with two or more coats of synthetic enamel paint of required shade complete as required : 25 mm dia	105.00	Mtr	471.00	49455.00
9	Providing, laying, testing & commissioning of 'C' class heavy duty MS pipe conforming to IS 3589/IS 1239 including Welding, fittings like elbows, tees, flanges, tapers, nuts bolts, gaskets etc. and fixing the pipe on the wall/ceiling with suitable clamp/support frame and painting with two or more coats of synthetic enamel paint of required shade complete as required : 50	45.00	Mtr	787.00	35415.00

	mm dia				
10	Providing, laying, testing & commissioning of 'C' class heavy duty MS pipe conforming to IS 3589/IS 1239 including Welding, fittings like elbows, tees, flanges, tapers, nuts bolts, gaskets etc. and fixing the pipe on the wall/ceiling with suitable clamp/support frame and painting with two or more coats of synthetic enamel paint of required shade complete as required : 80 mm dia	50.00	Mtr	1122.00	56100.00
11	Providing, laying, testing & commissioning of 'C' class heavy duty MS pipe conforming to IS 3589/IS 1239 including Welding, fittings like elbows, tees, flanges, tapers, nuts bolts, gaskets etc. and fixing the pipe on the wall/ceiling with suitable clamp/support frame and painting with two or more coats of synthetic enamel paint of required shade complete as required : 100 mm dia	20.00	Mtr	1499.00	29980.00
12	Providing, laying, testing & commissioning of 'C' class heavy duty MS pipe conforming to IS 3589/IS 1239 including Welding, fittings like elbows, tees, flanges, tapers, nuts bolts, gaskets etc. and fixing the pipe on the wall/ceiling with suitable clamp/support frame and painting with two or more coats of synthetic enamel paint of required shade complete as required : 150 mm dia	15.00	Mtr	2064.00	30960.00
13	Supplying and fixing single headed internal hydrant valve with instantaneous Gunmetal coupling of 63 mm dia with cast iron wheel ISI marked conforming to IS 5290 (Type -A) with blank Gunmetal cap and chain as required :	6.00	Set	7494.00	44964.00
14	Supplying and fixing Single headed external yard hydrant valve with 1 No. 63 mm dia instantaneous FM Gunmetal coupling and cast iron wheel, ISI marked, conforming to IS 5290 (type A) with blank Gunmetal cap and chain as required :	9.00	Set	7494.00	67446.00
15	Supplying, fixing, testing and commissioning of butterfly valve of PN 1.6 rating with bronze/gunmetal seat duly ISI marked complete with nuts, bolts, washers, gaskets conforming to IS 13095 of following sizes as required : 80 mm dia	1.00	Nos.	4842.00	4842.00

16	Supplying, fixing, testing and commissioning of butterfly valve of PN 1.6 rating with bronze/gunmetal seat duly ISI marked complete with nuts, bolts, washers, gaskets conforming to IS 13095 of following sizes as required : 100 mm dia	4.00	Nos.	6454.00	25816.00
17	Supplying, fixing, testing and commissioning of butterfly valve of PN 1.6 rating with bronze/gunmetal seat duly ISI marked complete with nuts, bolts, washers, gaskets conforming to IS 13095 of following sizes as required : 150 mm dia	1.00	Nos.	8699.00	8699.00
18	Supplying, fixing, testing and commissioning of butterfly valve of PN 1.6 rating with bronze/gunmetal seat duly ISI marked complete with nuts, bolts, washers, gaskets conforming to IS 13095 of following sizes as required : 200 mm dia	1.00	Nos.	14958.00	14958.00
19	Supplying, fixing, testing & commissioning of double flanged sluice valve of rating PN 1.6 with non rising spindle, bronze/gun metal seat, ISI marked complete with nuts, bolts, washers, gaskets and conforming to IS 780 of following sizes as required : 150 mm dia	3.00	Nos.	22550.00	67650.00
20	Supplying and fixing orifice plate made out of 6 mm thick stainless steel (Grade 304) with orifice of required size to be fitted between flange & landing valve of external and internal hydrants to reduce pressure at the outlet to the level of 3.5 kg/cm <sup>2</sup> complete as required	9.00	Nos.	1291.00	11619.00
21	Providing, installation, testing and commissioning of non-return valve of following sizes confirming to IS: 5312 complete with rubber gasket, GI bolts, nuts, washers etc.as required : 80 mm dia	1.00	Nos	7539.00	7539.00
22	Providing, installation, testing and commissioning of non-return valve of following sizes confirming to IS: 5312 complete with rubber gasket, GI bolts, nuts, washers etc.as required : 100 mm dia	1.00	Nos	10836.00	10836.00
23	Providing, installation, testing and commissioning of non-return valve of following sizes confirming to IS: 5312 complete with rubber gasket, GI bolts, nuts, washers etc.as required : 150 mm dia	3.00	Nos	17577.00	52731.00
24	Providing, installation, testing and commissioning of stainless steel Y-strainer fabricated out of 1.6 mm thick stainless steel, Grade 304, sheet with 3 mm dia holes with stainless steel flange 80 mm dia	1.00	Nos	4573.00	4573.00



25	Providing, installation, testing and commissioning of stainless steel Y-strainer fabricated out of 1.6 mm thick stainless steel, Grade 304, sheet with 3 mm dia holes with stainless steel flange 150 mm dia	2.00	Nos	10659.00	21318.00
26	Supplying and fixing GUN METAL 63 mm dia, 15 m long RRL hose pipe with 63 mm dia male and female couplings duly bound with GI wire, rivets etc. conforming to IS 636 (type-A) as required :	9.00	Nos	5188.00	46692.00
27	Supplying and fixing first-aid Hose Reel 30M long with MS construction spray painted in post office red, conforming to IS 884 complete with the following as required. 20 mm nominal internal dia water hose thermoplastic (Textile reinforced) type -2 as per IS: 12585 20 mm nominal internal dia gun metal globe valve & nozzle. Drum and brackets for fixing the equipments on wall. Connections from riser with 25 mm dia stop gun metal valve & M.S. Pipe and socket.	9.00	Nos	8413.00	75717.00
28	Supplying & fixing 63 mm dia gun metal short branch pipe with 20 mm nominal internal diameter size nozzle conforming to IS 903 suitable for instantaneous connection to interconnect hose pipe coupling as required :	9.00	Nos	2402.00	21618.00
29	Supplying and fixing of 2 Way 100mm dia fire brigade connection of cast iron body with gun metal male instantaneous inlet couplings complete with cap and chain as reqd. for suitable dia MS pipe connection conforming to IS 904 as required :	1.00	Nos	6590.00	6590.00
30	Providing, fixing, testing & commissioning of 15mm dia quartzoid bulb type sprinklers of rating 68 degree centigrade with required accessories : Pendent Sprinkler Each	50.00	Nos	484.00	24200.00
31	Providing, fixing, testing & commissioning of 15mm dia quartzoid bulb type sprinklers of rating 68 degree centigrade with required accessories : Horizontal side wall sprinkler	20.00	Nos	579.00	11580.00
32	Providing & fixing 100mm dia flow switch in following sizes M.S.pipe including connection etc as required	4.00	Nos	7362.00	29448.00

33	Providing, fixing, testing & commissioning of 100 mm dia installation control valve of cast iron body, brass/bronze working parts comprising of water motor alarm, bronze seat clapper, clapper arm and hydraulically driven mechanical gong bell to sound continuous alarm when the wet riser/sprinkler system activates, pressure gauges, emergency releases, strainer, pressure switch, cock valve complete with drain valve and bypass, test control box, ball valves, MS pipe of required size, flanges, orifice plate, gasket etc of follwing sizes as required : 100 mm dia	1.00	Nos	44697.00	44697.00
34	Supply Installing Testing & Commissioning of M.S. Hose Box to accommodate of 30-Mtr. length Hose Pipe & 1-No. of Branch Pipe with Nozzle, with necessary support and joints.	9.00	Nos	3500.00	31500.00
35	Supply & Installing of Gas -Co2 Type –4-Kg, Capacity Fire Extinguisher as per IS And ISI - mark , with necessary Fittings etc. complete.	9.00	Nos	8500.00	76500.00
36	Supply & Installing of ABC Type 6-Kg, Capacity Fire Extinguisher as per IS And ISI - mark with necessary Fittings etc. complete.	9.00	Nos	4150.00	37350.00
37	Supply, Installing, Testing & Commissioning of Fire Hotter Manual Call Point, & Control Panel Including Ele. Wire etc. Necessary. ON– OFF Switch At each floor for pump start And off including pipe and Wire and other necessary .	4.00	Nos	11500.00	46000.00
38	Design, supply & installation of safety signage made of zinc base glow in the dark rigid sheet with high luminous with pasted on 3 mm thick on rigid PVC foam sheet. Such as Fire Lift, Fire Point, In Case Of fire, Fire Alarm Panel EMERGENCY t etc.	600.00	Sq.Cm	12.00	7200.00
<b>Total Amount</b>					<b>3335651.00</b>
<b>Sub Estimate No. 13 :- DIESEL GENERATING SETS</b>					

1	Supplying and erecting, commissioning and testing of Diesel Generating set confirming to IS: 4722:1968 & BS:5514 having continuous rating, 3 phase, 415 volts, 50 cycles A.C. supply comprising of a totally enclosed air/water cooled diesel engine with multi-cylinders developing suitable BHP not less than following capacity at 1500 RPM with 10% overload for one hour in 24 hours with standard accessories like fly wheel, lubricating oil cooler, "A" class governor, heavy duty fuel wheel and lubricating oil filter, oil bath air filler, lubricating oil pressure gauge, end exhaust manifold, standard set of tools with adjustable spanners, screw drivers, cylinder head to cover, joint cylinder head to exhaust, element lube oil filter, 12 / 24 volts electric starting equipment complete with standard heavy duty battery, dynamo, cut-outs, ammeter, necessary wiring, pressure gauge, starter etc and heavy duty Residential type exhaust silencer and vertical hot air duct both	0.00	0.00	0.00	0.00
0	logged with asbestos rope, save oil trays, exhaust piping of required length, standard wall/floor mounted fuel with level indicator and piping and drip proof alternator, self excited, self regulated, screen protected, with excitation system, capable of delivering the rated system output at 415 volts, 3 phase, 0.8 PF, 50 Hz, 4 wire, running at 1500 RPM, conforming to IS-4722- 1968 with voltage regulation +/- 5% of rated voltage from no load to full load. Both the engine and alternator fitted on a common fabricated steel base plate with antivibration mounting engine and alternator both connected to each other by flexible flange coupling and with floor/wall mounted control panel box comprising of voltmeter ammeter, selector switches, ACB / MCCB / MCB of adequate capacity,	0.00	0.00	0.00	0.00

0	indicator lamps duly wired with HRC fuses. The alternator & control panel shall be connected with provided suitable capacity armoured cable and complete with Acoustic enclosure (canopy) made out of 18 SWG CRCA Sheet, sound absorbing material Rockwool of 64 density & 100 mm thick conforming to IS:8183 The resin bonded rockwool covered from inside the canopy by perforated sheet with 3/4 mm holes, sound level not more than 75 dB at a distance of 1 mtr, as per PVCT norms. Erection, commissioning and satisfactory testing as per requirement with first filling of fuel, oil, etc. with guarantee of complete system for One year. & with obtaining all necessary certificate from Electrical Inspector. The Capacity and Ratings of DG sets are as below.	0.00	0.00	0.00	0.00
0	(H) Continuous Rating of 50 KVA ,BHP not less than 65.8 BHP	1.00	NO.	612200.00	612200.00
0	Providing & erecting approved make ATS panel suitable for following size of 3 phase, 415 V., 50 cycles, A.C. diesel generating set complete of scope as detailed below: 1) Power module: Motorised Changeover switch with ATS controller, Auxiliary contactor with NO & NC contacts with Automatic Battery Charger, indicating lamps for Generator ON, Mains ON, Load and suitable control terminals and power terminals with neutral earthing studs. (C) ATS Panel for 50 / 62.5 KVA 3 phase DG Set	1.00	NO.	67000.00	67000.00
<b>Total Amount</b>					<b>679200</b>
		<b>Total of All Sub Estimate</b>			<b>99886660.00</b>

<b>COST SUMMARY OF ELEVATED SEMICLOSED REFUSE TRANSFER STATION @ MOTAMAVA, RAJKOT.</b>		
<b>SR.NO.</b>	<b>COMPONENTS</b>	<b>ESTIMATED AMOUNT AS PER SOR R&amp;B 2021-22, RMC-2018-19.</b>
<b>1</b>	<b>TRANSFER STATION</b>	
A	Platform	22906384.68
B	RCC Ramp	14797701.97
C	Electrical works	997738.00
<b>2</b>	<b>COMPOUND DEVELOPMENT</b>	
A	Compound Wall	9249482.80
B	Entry Exist Gate	1042054.44
C	Kerbing	793770.84
D	Storm Drain/ Sewerage/ Water Supply	1750506.80
E	RCC Pavement	25196216.00
<b>3</b>	<b>ADMINISTRATIVE OFFICE BUILDING</b>	2679136.25
<b>4</b>	<b>TUBE WELL</b>	873472.00
<b>5</b>	<b>U.G. WATER TANK</b>	1437645.80
<b>6</b>	<b>TOILET BLOCKS</b>	940163.94
<b>7</b>	<b>WEIGH BRIDGE</b>	
A	Weigh bridge and its foundation -3 nos	4935745.00
B	Weigh bridge office ( Civil+Electrical )	836038.70
<b>8</b>	<b>STREET LIGHT POLE</b>	1176372.00
<b>9</b>	<b>RCC PLATFORM FOR MAINTENANCE OF TS</b>	3338205.00
<b>10</b>	<b>GENERATOR AND ELECTRICAL ROOM</b>	2008217.58
<b>11</b>	<b>WASH AND SERVICE AREA</b>	912956.35
<b>12</b>	<b>FIRE HYDRANT SYSTEM</b>	3335651.00
<b>13</b>	<b>DIESEL GENERATING SET</b>	679200.00
<b>Net Total</b>		<b>99886660.00</b>

## RAJKOT MUNICIPAL CORPORATION SOLID WASTE MANAGEMENT

**NAME OF WORK: CONSTRUCTION OF ELEVATED SEMI-CLOSED REFUSE TRANSFER STATION AT  
MOTAMAVA, RAJKOT**

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

Estimated Amount put to tender

**Rs.9,98,86,660.00**

Deduct: \_\_\_\_\_% above Rs. \_\_\_\_\_

Total Rs. \_\_\_\_\_

Rupees In Words \_\_\_\_\_

Estimated Amount put to tender

**Rs.9,98,86,660.00**

Deduct: \_\_\_\_\_% below Rs. \_\_\_\_\_

Total Rs. \_\_\_\_\_

Rupees In Words \_\_\_\_\_

**Note 1.** All work shall be carried out as per public work department hand book and other specifications of Division or as directed.

**Note 2.** Rates quoted include clearance of site (Prior commencement of work and its close) in all respects and hold good for work under all condition, site, moisture/ weather etc.

**Note 3.** As per government (G.R building and other construction work welfare cess Act 1966, Labour and employment development G.R.NO (WA/2004/841/M-3 Dt-30/01/2006 contractor shall have to pay 1 % Construction Cess on every bill amount.

**Note 4.** Rate quoted shall include all applicable taxes from time to imposed by central or state government such as GST, IT, Labor Cess, Octroy etc. No extra payment will be made for any tax.

Witness: trading under the name and

Name: Seal of tender/Contractor.

**Signature of the Contractor**

**Address; -**

**Date:-**

**Environmental Engineer  
Rajkot Municipal Corporation**