

# GUJARAT BIOTECHNOLOGY UNIVERSITY



## BILL OF QUANTITIES

GBU Gujrat Detailed estimate for Construction of Basement, Animal House & Ext. development .

**Architect:**  
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**Abstract of Cost**

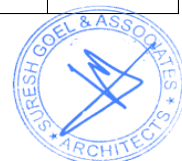
**GBU Gujrat - Detailed estimate for Construction of Basement, Animal House &  
Ext. dev .**

<b>Sl. No.</b>	<b>Description</b>	<b>Total</b>
1	Earth Work	4115658
2	Concrete Work	2473598
3	R.C.C. Work	92278927
4	Brick Work	3143495
5	Marble Work	1414101
6	Wood Work & PVC Work	3475585
7	Steel Work	11525159
8	Flooring	8071381
9	Roofing	1278459
10	Finishing	9175048
11	Aluminium Work	16599305
12	Waterproofing	11171880
13	Ext development	4529298
14	Sanitary Installation	880679
15	Water Supply	7467175
16	Drainage	6179803
17	Rain Water Harvesting	808030
18	Electrical	11116777
	<b>Total</b>	<b>195704358</b>
	<b>Total amount in cr</b>	<b>19.57</b>



**Bill Of Quantities**  
**GBU Gujrat - Construction of Basement, Animal House & Ext. dev .**

S.No.	SOR No	Description	Qty	Unit	Rate with L Cess excl GST	Amount
		<b>Sub- Head - I , Earth Work</b>				
1	26117D	Clearing and grubbing road including uprooting rank vegetation grass bushes, shrubs , sapling and trees girth upto 300mm removal stumps of trees cut earlier and disposal of unserviceable (D) By mechanical means in area of thorny jungle.	9	Hectare	34796.29	328999
2	MR	Excavation for foundation upto 1.5m depth including sorting out and stacking of useful materials , back filling in sides of fsides of foundations etc. in layers not exceeding 20cm .in depth consolidating each deposited layer by ramming and watering etc and disposing off the excavated stuff upto any lead and lift. Dense or hard soft soil	6573	cum	175.74	1155139
3	MR	Excavation for foundation for a depth from 1.5m to 3.0m depth including sorting out and stacking of useful materials back filling in sides of fsides of foundations etc. in layers not exceeding 20cm .in depth consolidating each deposited layer by ramming and watering etc and disposing off the excavated stuff upto any lead . (D)Dense or hard soft soil . Quantity for excavation shall be paid based on actual dimensions in the drawings	6573	cum	188.45	1238654
4	MR	Excavation for foundation for a depth from 3.0m to 5.0m depth including sorting out and stacking of useful materials back filling in sides of fsides of foundations etc. in layers not exceeding 20cm .in depth consolidating each deposited layer by ramming and watering etc and disposing off the excavated stuff upto any lead . (D)Dense or hard soft soil . Quantity for excavation shall be paid based on actual dimensions in the drawings	2799	cum	200.29	560620
5	04007A	Filling in plinth with (good quality) sand under floors including watering, ramming, consolidating and dressing etc. complete.	609	cum	460.09	280192
6	22007	Carring out plinth treatment to post construction / during construction by spraying chemical solution for termite control treatment including labour and material consistment with I.S.I specification. Using Chlordene and Chiorpurfiles 20 EC. As Per 6131_paret-II Concentration Weight one percent is recommended i.e one litre 20EC chemical emulsion with 19 liter give 1% concentration inclusive of one litre chemical emulsion appication at the rate of 5Litre chemical / Sqm of surface is recommended as per I.S. Plinth area only shall be measured for payment purpose.	5211	sqm	105.95	552054
		<b>TOTAL</b>				<b>4115658</b>
		<b>Sub - Head - II , Concrete Work</b>				
7	05003A	Providing & laying cement concrete 1:3:6 (1: cement: 3 coarse sand: 6 machine crust stone aggregates 40 mm nominal size) for all depths below and up to plinth level in foundations and curing etc. complete including cost of formwork in Footings & Ground, Plinth Beams & below Floors	326	cum	2995.90	976664
8	05004A	Providing and laying cement concrete 1:4:8 (1- Cement : 4- coarsesand : 8- hand broken stone aggregates 40 mm nominal size) and curing complete excluding cost of formwork in (A) Foundation and Plinth	379	cum	2670.35	1012062



S.No.	SOR No	Description	Qty	Unit	Rate with L Cess excl GST	Amount
9	05010AA	Providing and laying cement concrete 1:2:4 (1 Cement :2-coarse sand :4-crushed stone aggregates 20 mm nominal size) In Foundation & plinth and curing complete including cost of form work, dewatering etc. Rates are incl. shoring & strutting and dewatering. No extra payment will be made for Shoring, Strutting and dewatering	6	cum	3653.07	21918
10	MR	Making plinth protection 50mm thick of cement concrete 1:3:6 ( 1cement:3 coarse sand:6 graded stone aggregate 20mm nominal size over 75mm thick bed of dry brick ballast 40mm nominal size , well rammed and consolidated and grouted with fine sand , including necessary excavation, levelling and dressing & finishing the top smooth, including toe wall 230mm wide and 450mm deep on the edge to plinth protection with common burnt clay bricks including grouted with cement mortar 1:4 (1cement:4 fine sand)	581	sqm	796.82	462954
		<b>TOTAL</b>				<b>2473598</b>
		<b>Sub - Head - III , RCC Work</b>				
11	RA	Providing TMT Bar FE 500D reinforcement for RCC work including bending, binding with G.I Binding wire and placing in position complete <b>at all heights, all lifts and all levels</b> as shown in the drawing	673849	kg	82.06	55297771
12	RA	Providing and laying in position machine batched and machine mixed design mix M-300 grade concrete for reinforced cement concrete work , using cement content as per approved Design Mix manufactured in fully automatic batching plant including the cost of centering shuttering finishing and excluding reinforcement including cost of admixtures in recommended proportions as per IS: 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge. Without Fly Ash (Min cement level as per latest IS 456 shall be maintained) (Cement level 410 kg ) for Footing/Raft /grade slab upto plinth level.	1772	cum	4740.64	8400420
13	RA	Providing and laying in position machine batched and machine mixed design mix M-300 grade concrete for reinforced cement concrete work , using cement content as per approved Design Mix manufactured in fully automatic batching plant including the cost of centering shuttering finishing and excluding reinforcement including cost of admixtures in recommended proportions as per IS: 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge. Without Fly Ash (Min cement level as per latest IS 456 shall be maintained) (Cement level 410 kg ) for plinth beam / beam upto Plinth level	874	cum	6976.41	6097378



S.No.	SOR No	Description	Qty	Unit	Rate with L Cess excl GST	Amount
14	RA	Providing and laying in position machine batched and machine mixed design mix M-350 grade concrete for reinforced cement concrete work , using cement content as per approved Design Mix manufactured in fully automatic batching plant including the cost of centering shuttering finishing and excluding reinforcement including cost of admixtures in recommended proportions as per IS: 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge. Without Fly Ash (Min cement level as per latest IS 456 shall be maintained) (Cement level 425 kg ) for Columns, pillars Post Struts upto Plinth level	205	cum	7536.56	1544995
15		Providing and laying in position machine batched and machine mixed design mix M-350 grade concrete for reinforced cement concrete work , using cement content as per approved Design Mix manufactured in fully automatic batching plant including the cost of centering shuttering finishing and excluding reinforcement including cost of admixtures in recommended proportions as per IS: 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge. Without Fly Ash (Min cement level as per latest IS 456 shall be maintained) (Cement level 425 kg ) for Wall / shear wall upto Plinth level	506	cum	6602.71	3340993
16		Providing and laying in position machine batched and machine mixed design mix M-300 grade concrete for reinforced cement concrete work , using cement content as per approved Design Mix manufactured in fully automatic batching plant including the cost of centering shuttering (height upto 4.2M) finishing and excluding reinforcement including cost of admixtures in recommended proportions as per IS: 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge. Without Fly Ash (Min cement level as per latest IS 456 shall be maintained) (Cement level 410 kg ) for Lintels/beams/Cantilevers Girders Bressumers at <b>Ground Floor</b>	709	cum	6976.41	4943372
17		Providing and laying in position machine batched and machine mixed design mix M-300 grade concrete for reinforced cement concrete work , using cement content as per approved Design Mix manufactured in fully automatic batching plant including the cost of centering shuttering (height upto 4.2M) finishing and excluding reinforcement including cost of admixtures in recommended proportions as per IS: 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge. Without Fly Ash (Min cement level as per latest IS 456 shall be maintained) (Cement level 410 kg ) for Lintels/beams/Cantilevers Girders Bressumers at <b>First Floor</b>	147	cum	7011.29	1030427



S.No.	SOR No	Description	Qty	Unit	Rate with L Cess excl GST	Amount
18		Providing and laying in position machine batched and machine mixed design mix M-300 grade concrete for reinforced cement concrete work , using cement content as per approved Design Mix manufactured in fully automatic batching plant including the cost of centering shuttering (height upto 4.2M) finishing and excluding reinforcement including cost of admixtures in recommended proportions as per IS: 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge. Without Fly Ash (Min cement level as per latest IS 456 shall be maintained) (Cement level 410 kg ) for Lintels/beams/Cantilevers Girders Bressumers at <b>Second Floor</b>	146	cum	7046.34	1026914
19		Providing and laying in position machine batched and machine mixed design mix M-300 grade concrete for reinforced cement concrete work , using cement content as per approved Design Mix manufactured in fully automatic batching plant including the cost of centering shuttering (height upto 4.2M) finishing and excluding reinforcement including cost of admixtures in recommended proportions as per IS: 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge. Without Fly Ash (Min cement level as per latest IS 456 shall be maintained) (Cement level 410 kg ) for Lintels/beams/Cantilevers Girders Bressumers at <b>Terrace Floor</b>	35	cum	7081.58	247804
20		Providing and laying in position machine batched and machine mixed design mix M-400 grade concrete for reinforced cement concrete work , using cement content as per approved Design Mix manufactured in fully automatic batching plant including the cost of centering shuttering finishing and excluding reinforcement including cost of admixtures in recommended proportions as per IS: 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge. Without Fly Ash (Min cement level as per latest IS 456 shall be maintained) (Cement level 440kg ) for Columns, pillars Post Struts at <b>Ground Floor Level</b>	87	cum	7536.56	658077
21		Providing and laying in position machine batched and machine mixed design mix M-400 grade concrete for reinforced cement concrete work , using cement content as per approved Design Mix manufactured in fully automatic batching plant including the cost of centering shuttering finishing and excluding reinforcement including cost of admixtures in recommended proportions as per IS: 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge. Without Fly Ash (Min cement level as per latest IS 456 shall be maintained) (Cement level 440kg ) for Columns, pillars Post Struts at <b>First Floor Level</b>	87	cum	7574.24	661368



S.No.	SOR No	Description	Qty	Unit	Rate with L Cess excl GST	Amount
22		Providing and laying in position machine batched and machine mixed design mix M-400 grade concrete for reinforced cement concrete work , using cement content as per approved Design Mix manufactured in fully automatic batching plant including the cost of centering shuttering finishing and excluding reinforcement including cost of admixtures in recommended proportions as per IS: 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge. Without Fly Ash (Min cement level as per latest IS 456 shall be maintained) (Cement level 440kg ) for Columns, pillars Post Struts at <b>Second Floor Level</b>	87	cum	7612.11	664675
23		Providing and laying in position machine batched and machine mixed design mix M-400 grade concrete for reinforced cement concrete work , using cement content as per approved Design Mix manufactured in fully automatic batching plant including the cost of centering shuttering finishing and excluding reinforcement including cost of admixtures in recommended proportions as per IS: 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge. Without Fly Ash (Min cement level as per latest IS 456 shall be maintained) (Cement level 440kg ) for Columns, pillars Post Struts at <b>Terrace Floor Level</b>	13	cum	7650.17	97494
24		Providing and laying in position machine batched and machine mixed design mix M-400 grade concrete for reinforced cement concrete work , using cement content as per approved Design Mix manufactured in fully automatic batching plant including the cost of centering shuttering finishing and excluding reinforcement including cost of admixtures in recommended proportions as per IS: 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge. Without Fly Ash (Min cement level as per latest IS 456 shall be maintained) (Cement level 440kg ) for Wall / shear wall <b>Ground Floor level</b>	31	cum	6602.71	207064
25		Providing and laying in position machine batched and machine mixed design mix M-400 grade concrete for reinforced cement concrete work , using cement content as per approved Design Mix manufactured in fully automatic batching plant including the cost of centering shuttering finishing and excluding reinforcement including cost of admixtures in recommended proportions as per IS: 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge. Without Fly Ash (Min cement level as per latest IS 456 shall be maintained) (Cement level 440kg ) for Wall / shear wall <b>First Floor level</b>	31	cum	6635.73	208100



S.No.	SOR No	Description	Qty	Unit	Rate with L Cess excl GST	Amount
26		Providing and laying in position machine batched and machine mixed design mix M-400 grade concrete for reinforced cement concrete work , using cement content as per approved Design Mix manufactured in fully automatic batching plant including the cost of centering shuttering finishing and excluding reinforcement including cost of admixtures in recommended proportions as per IS: 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge. Without Fly Ash (Min cement level as per latest IS 456 shall be maintained) (Cement level 440kg ) for Wall / shear wall <b>Second Floor level</b>	31	cum	6668.90	209140
27		Providing and laying in position machine batched and machine mixed design mix M-400 grade concrete for reinforced cement concrete work , using cement content as per approved Design Mix manufactured in fully automatic batching plant including the cost of centering shuttering finishing and excluding reinforcement including cost of admixtures in recommended proportions as per IS: 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge. Without Fly Ash (Min cement level as per latest IS 456 shall be maintained) (Cement level 440kg ) for Wall / shear wall <b>Third Floor level</b>	28	cum	6702.25	190543
28	MR	Providing and laying in position machine batched and machine mixed design mix M-300 grade concrete for reinforced cement concrete work , using cement content as per approved Design Mix manufactured in fully automatic batching plant including the cost of centering shuttering(height upto 4.2M) finishing and excluding reinforcement including cost of admixtures in recommended proportions as per IS: 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge. Without Fly Ash (Min cement level as per latest IS 456 shall be maintained) (Cement level 410 kg ) for Slab /Shelves/ landing balconies, access platform , staircase at <b>Ground Floor Level</b>	162	cum	6398.52	1037011
29		Providing and laying in position machine batched and machine mixed design mix M-300 grade concrete for reinforced cement concrete work , using cement content as per approved Design Mix manufactured in fully automatic batching plant including the cost of centering shuttering(height upto 4.2M) finishing and excluding reinforcement including cost of admixtures in recommended proportions as per IS: 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge. Without Fly Ash (Min cement level as per latest IS 456 shall be maintained) (Cement level 410 kg ) for Slab /Shelves/ landing balconies, access platform , staircase at <b>First Floor Level</b>	155	cum	6430.51	998790

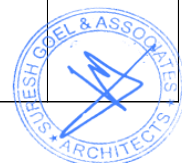




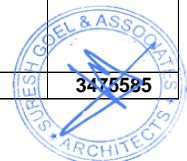
S.No.	SOR No	Description	Qty	Unit	Rate with L Cess excl GST	Amount
30		Providing and laying in position machine batched and machine mixed design mix M-300 grade concrete for reinforced cement concrete work , using cement content as per approved Design Mix manufactured in fully automatic batching plant including the cost of centering shuttering (height upto 4.2M) finishing and excluding reinforcement including cost of admixtures in recommended proportions as per IS: 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge. Without Fly Ash (Min cement level as per latest IS 456 shall be maintained) (Cement level 410 kg ) for Slab /Shelves/ landing balconies, access platform , staircase at <b>Second Floor Level</b>	155	cum	6462.67	1003784
31		Providing and laying in position machine batched and machine mixed design mix M-300 grade concrete for reinforced cement concrete work , using cement content as per approved Design Mix manufactured in fully automatic batching plant including the cost of centering shuttering (height upto 4.2M) finishing and excluding reinforcement including cost of admixtures in recommended proportions as per IS: 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge. Without Fly Ash (Min cement level as per latest IS 456 shall be maintained) (Cement level 410 kg ) for Slab /Shelves/ landing balconies, access platform , staircase at <b>Third Floor Level</b>	62	cum	6494.98	403583
32	RA	Extra for Additional height of propping and centering where the height of propping and centering exceeds 4.2 m between supporting floor to ceiling upto 8.4 M.	6924	sqm	579.03	4009224
		<b>TOTAL</b>				<b>92278927</b>
		<b>Sub- Head IV - Brick Work</b>				
33	06002BA	Brick work using common burnt clay building bricks having minimum crushing strength not less than 35 kg/ sq cm in foundation and plinth in cement mortar 1 : 6 (1 cement : 6 fine sand)	146	cum	4020.80	587037
34	RA	Masonry work using Aerated light weight concrete block having crushing strength not less than 35 kg/sqcm for super structure above plinth level laid with approved block laying polymer modified adhesive mortar all complete as per direction of engineer in charge and Technical Specification . <b>Ground Floor</b>	226	cum	4528.56	1021482
35	RA	Masonry work using Aerated light weight concrete block having crushing strength not less than 35 kg/sqcm for super structure above plinth level laid with approved block laying polymer modified adhesive mortar all complete as per direction of engineer in charge and Technical Specification. <b>1st Floor</b>	129	cum	4573.84	589424
36	RA	Masonry work using Aerated light weight concrete block having crushing strength not less than 35 kg/sqcm for super structure above plinth level laid with approved block laying polymer modified adhesive mortar all complete as per direction of engineer in charge and Technical Specification. <b>2nd Floor</b>	108	cum	4619.58	497545



S.No.	SOR No	Description	Qty	Unit	Rate with L Cess excl GST	Amount
37	RA	Masonry work using Aerated light weight concrete block having crushing strength not less than 35 kg/sqcm for super structure above plinth level laid with approved block laying polymer modified adhesive mortar all complete as per direction of engineer in charge and Technical Specification. <b>3rd Floor</b>	74	cum	4665.78	343448
38	NS	Providing and fixing chicken wire mesh of gauge 0.18mm and 200 mm wide with necessary screws and nail at joints cracks of brick work R.C.C work as per drawing and specification and direction of Engineer incharge.	477	sqm	219.32	104559
		<b>TOTAL</b>				<b>3143495</b>
		<b>Sub Head - V Marble/stone Work</b>				
39	RA	Providing and fixing 18mm thick gang saw cut mirror polished premoulded and prepolished) Granite of any colour and shade as per selection of client for wall lining (veneer work), /bands 200mm wide backing filled with a grout of average 12 mm thick in polymer modified adhesive mortar including secured to the backing by means of cramps, hold fasteners ,copper pins 7.5 cm long 6 mm diameter for securing adjacent stones in stone wall lining in adhesive mortar including making the necessary chases complete in all respect.	80	sqm	5555.00	444400
40	MR /DSR 8.2	Providing and fixing 18mm thick gang saw cut mirror polished premoulded and prepolished) machine cut Granite of any colour and shade as per selection of client for kitchen platforms, vanity counters, window sills , facias and similar locations of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) with joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish, providing opening of required size & shape for wash basin/sink etc. complete at all levels.	251	sqm	3131.00	785881
41	NS	Design,manufacture,supply and installation at site Glass Fiber Reinforced concrete (GRC)screens/jali, produced in accordance with Pre Cast Institute( U S A) Manual 128 EDN 4,conforming to size & Thickness as per drawing.Product manufactured using composition of alkali Resistant Glass Fiber of Make NES Japan or CEMFIL or equivalent,High silica sand and white cement as raw materials conforming to relevant Indian and ASTM Standards,fixing with 6 inch Hilti Fastner with every 2 feet gap as required.(M S frame if required is considered in relevant item))	65	sqm	2828.00	183820
		<b>TOTAL</b>				<b>1414101</b>
		<b>Sub- Head - VI Wood Work &amp; PVC Work</b>				
42	MR	Flush Door (Laminated ) Providing and fixing of 35mm solid cored flush door with 1mm thick laminate in approved shade as per selection on both side as shown in the drg. All exposed edges covered with wooden liping of min 4mm th duly painted and finished matching shade of laminate. Rate shall Include Frame of WPC 125x65mm size comprising of virgin PVC polymer of K value 58- 60 (Suspension Grade), , SS Handle, Lock , Door Stopper, Door Closer, S.S. heavy duty hinges etc. all materials and labour etc. complete as per detail drawing and instruction of engineer-in charge and consultant.	86	sqm	6060.00	521160



S.No.	SOR No	Description	Qty	Unit	Rate with L Cess excl GST	Amount
43	NS	Providing and fixing Hollow metal fire rated doors shutter with frame and hardware fittings etc complete as per specifications. Door frame shall be double rebate profile of minimum size 154mm X 77 mm made out of 1.60mm minimum thick galvanized steel sheet. The frames should be finished with Thermosetting Powder Coating in desired RAL Shade. All provision should be mortised, drilled and tapped for receiving appropriate hardware. Frames should be provided with back plate bracket and anchor fasteners for installation on a finished plastered masonry wall opening. Door leaf shall be minimum 49mm thick fully flush double skin door with or without vision lite. All doors NSD 12049 shall be factory prepped for receiving appropriate hardware and provided with necessary reinforcement for hinges, locks, and door closers. For pair of doors astragals has to be provided on the meeting stile for both active and inactive leaf.	22	sqm	10580.76	232777
44	NS	Providing and fixing Hollow metal doors shutter with frame and hardware fittings etc complete as per specifications. Door frame shall be double rebate profile of minimum size 100mm X 58 mm made out of 1.20mm minimum thick galvanized steel sheet. The frames should be finished with Thermosetting Powder Coating in desired RAL Shade. All provision should be mortised, drilled and tapped for receiving appropriate hardware. Frames should be provided with back plate bracket and anchor fasteners for installation on a finished plastered masonry wall opening. Door leaf shall be minimum 47mm thick fully flush double skin door with or without vision lite. All doors NSD 12049 shall be factory prepped for receiving appropriate hardware and provided with necessary reinforcement for hinges, locks, and door closers.	302	sqm	8375.78	2529485
45	NS	Restroom Cubical: providing and installing ZMS SS Series Restroom Cubicles with all necessary tools hardware, labour, as per the company specs. Providing & Fixing BESCO Cubicle partition system for toilet by using following Materials 12mm thick compact laminate with core of phenol resin treat papers with black color top layer treated with special melamine resin. Adjustable legs with bottom cap of SS 316, door lock with, gravity hinges with cover – combination of mild steel and Nylon PA6 And used following Accessories Accessories Include: 1. Alumunium Top Rail (Stainless Steel Grade 304 with Satin Finish) 2. SS Coat Hook with Door Stopper Option (Stainless Steel Grade 304 with Satin Finish) 3. SS Gravity Hinges (Stainless Steel Grade 304 with Satin Finish) 4. SS Latch cum Occupancy Indicator (Stainless Steel Grade 304 with Satin Finish) 5. SS "U" Channel (Stainless Steel Grade 304 with Satin Finish) 6. SS "F" Channel (Stainless Steel Grade 304 with Satin Finish) 7. SS Palm Design Adjustable Foot (Stainless Steel Grade 304 with Satin Finish) 8. SS Screws & Inserts (Stainless Steel Grade 304 with Satin Finish) 9. Rubber Lining for Door Stopper Brand.	21	sqm	9150.60	192163
		<b>TOTAL</b>				<b>3475585</b>



S.No.	SOR No	Description	Qty	Unit	Rate with L Cess excl GST	Amount
		<b>Sub- Head - VII , Steel Work</b>				
46	11002AA	Providing, supplying, fixing, fabricating, erecting, aligning the structural steel like pivot ,tubular 'T','I" section, angle, plate ,beam, channel section, Bar , hollow box or Z purlins , for built up purlins, roof trusses, columns, side runners, tie beams, sag rods, base plates gusset plates, cap plates, bearing bracing, gantry girders, rails, require support,pipes, including all welded or bolted steel structures of various types with approved I.S.I.mark electrodes, bolts, anchor bolts including cost of thread, Anchor plate cleats etc. in RCC or masonry work, including cutting, bending, welding ,fixing, supplying , Fabricating Decorative fevisted section or any structured member required to complete the job for Trusses, Canopy, doors, Frame, Railing, Entrance gate, pergola, Decorative hanging light , for Electrical, water supply and HVAC structure New window, parking shed or space frame or any other required specified area as shown on drawing and detailed specification or as per design incl. three coats of approved brand primer and two coats of paints, necessary scaffolding, tools tolerance etc. complete as directed by Engineer In Charge. (Payment will be made for weight of metal used in the work) (Work for all the floors/all heights)	83591	kg	84.16	7035294
47	NS	Design, manufacture and installation of 12 mm dpi system, a complete assembly of extruded Multi / Micro cellular profile UV extruded/protected polycarbonate panels incorporated into a complete system. The Polycarbonate panel system consists coextruded UV protected Multi / Micro cellular structure polycarbonate panel with width of 1040 mm to ensure best performance for wind uplift, vibration, oil canning and visual appearance. Panels shall be manufactured with vertical standing seam with standing seam height of 10 - 15mm at both sides of the panel. Panels shall be fixed on Purlins with the Z - Type Stainless Steel Fastener/retention clips and connectors. Each fastener shall be min 1mm thick of SS 304 Grade and secured to supporting frame/structure with min 3 numbers of self- drill screws so that the Pull Out Load of Fastener exceeds 7000 N (7 KN) when tested as per ISO 6892: 1998 and IS 1608: 2005. Snap-on connectors to interlock the panels shall have 2-4 teeth grip-lock locking mechanism to ensure maximum uplift capability. Panel shall be fixed with additional End cap/Aluminum U / F Profile / Glazing Bar (mill finish) for ends as required. Panel shall be fixed over structural steel / MS purlin (paid separately) by trained & factory authorised installer under direct supervision to complete entire project installation according to the detail technical specifications as per approved architectural drawings.	1449	sqm	2277.55	3300170



S.No.	SOR No	Description	Qty	Unit	Rate with L Cess excl GST	Amount
48	DSR 10.28	Providing and fixing stainless steel ( Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.	1435	kg	661.55	949536
49	DSR 10.27	Providing and fixing carbon steel galvanised ( minimum coating 5 micron ) dash fastener of 10 mm dia double threaded 6.8 grade (yield strength 480 N/mm <sup>2</sup> ), counter sunk head, comprising of 10 m dia polyamide PA 6 grade sleeve, including drilling of hole in frame , concrete/ masonry, etc. as per direction of Engineer-in-charge.				
50	10.27.2	10 x120 mm	2392	each	100.40	240159
		<b>TOTAL</b>				<b>11525159</b>
		<b>Sub- Head - VIII Flooring</b>				
51	DSR 11.3	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete. 11.3.1- 40 mm thick with 20 mm nominal size stone aggregate 11.13.1 Providing and fixing glass strips in joints of terrazo/cement concrete floors.- 40 mm wide and 4 mm thick	450	sqm	367.49	165373
52	14012AA	Providing and laying mirror polished Kota stone slab flooring over 20mm (Average ) thick base of cement mortar 1:6 (1-cement:6-coarse sand) laid over and jointed with grey cement slurry mixed with pigment to match the shade of slab including rubbing and mirror polishing etc. complete. (A) 25mm thick (work for all the floors)	432	sqm	992.66	428828
53	14013A	Providing and laying mirror polished kota stone slab 25mm thick in risers of steps, skirting Dado and pillars laid on 10mm thick cement mortar 1:3 (1-Cement :3 coarses and) and jointed with gray cement slurry mixed with pigment to match the shade of slab including rubbing and mirror polishing etc. complete. (work for all the floors)	65	sqm	1187.79	77206
54	DSR 11.25	Extra for marble stone flooring in treads of steps and risers using single length up to 2.00 metre.	36	sqm	600.44	21616
55	NS	Providing & laying Light & Dark Colored Polished Granite slab (16-18mm thick) flooring For Staircase Tread, Landing over 20 mm (average) thick base of Cement Mortar (1-Cement : 6-Sand) using cementitious Adhesive Materials as per EIC instruction. Granite slab shall be laid and jointed with grey cement slurry. The size of granite should be in full length of Riser and Tread as per design. Rates are including rubbing, polishing Moulding /Rounding of edges, making two lines of Grooves on each tread for antislip, laying and removing of floor protection sheet etc. complete. (work for all the floor Staircase	938	sqm	2629.03	2466030



S.No.	SOR No	Description	Qty	Unit	Rate with L Cess excl GST	Amount
56	NS	Providing & laying Granite slab (16-18mm thick - river wash) in riser of steps dedo, Skirting and pillars laid 15 mm thick Cement Mortar 1:3 (1Cement:3 Coarse Sand) using cementitious Adhesive Materials as per EIC instruction. Granite slab shall be jointed with the Grey Cement Slurry Rates are including rubbing, polishing Moulding / Rounding of edges, laying and removing of floor protection sheet etc. complete.(work for all the floors)	112	sqm	2629.03	294451
57	NS	Providing and laying Double Charged Vitrified tiles Polished finish of size 600mmx600mm in floor / skirting (thickness to be specified by the manufacturer) with water absorption less than 0.08%and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS : 15477, in average 6 mm thickness, including grouting of joints The tiles must be cut with the zero chipping diamond cutter only . Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently and easily.	82	sqm	1426.12	116942
58	NS	Providing and laying Double Charged Vitrified tiles Polished finish of size 800mmx800mm in floor / skirting (thickness to be specified by the manufacturer) with water absorption less than 0.08%and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS : 15477, in average 6 mm thickness, including grouting of joints The tiles must be cut with the zero chipping diamond cutter only . Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently and easily.	24	sqm	1440.26	34566
59	14008AA	Providing and laying Ceramic tiles 6mm thick in flooring treads of steps and landing laid on a bed of 12mm thick cement mortar 1:3 (1- cement : 3-coarse sand ) finishing with flush pointing in white cement.	34	sqm	917.25	31187
60	14009AA	Providing and laying Ceramic tiles 6mm thick in skirting risers of steps and dedo on 10mm thick cement plaster 1:3 (1-cement : 3- coarse sand) and jointed with white cement slurry	205	sqm	1073.90	220150
61	NS	Providing and laying under floor screeding Cement mortar 1:4 (1cement : 4 coarse sand)	7	cum	5077.27	35541
62	NS	Providing and laying C.C. pavement of mix M-25 with ready mixed concrete from batching plant. The ready mixed concrete shall be laid in panels and finished with screed board vibrator , vacuum dewatering process and finally finished by floating, brooming with wire brush etc. complete as per specifications and directions of Engineer-in charge.Cement content considered in this item is @ 380 kg/cum.	495	cum	8408.25	4162084

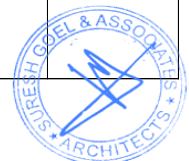


S.No.	SOR No	Description	Qty	Unit	Rate with L Cess excl GST	Amount
63	NS /DSR 18.77	Cutting holes in RCC wall , slab by diamond core cutting machine upto 150mm dia for passing drain pipes etc and repairing the hole after insertion of drain pipe etc with GP2 grout.	45	nos	386.83	17407
		<b>TOTAL</b>				<b>8071381</b>
		<b>Sub- Head - IX Roofing</b>				
64	12.41	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes. 12.41.2) 110 mm diameter	161	Metre	288.35	46424
65	12.42	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion. 12.42.2)Single Push Fit Coupler. 12.42.2.2) 110 mm dia	66	Each	99.74	6583
66	12.42	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion. 12.42.4)Single tee without door. 12.42.4.1) 75x75x75 mm	13	Each	112.00	1456
67	12.42	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion. 12.42.5)Plain bend 87.5 deg. 12.42.5.2) 110 mm dia	13	Each	119.04	1547
68	12.42	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion. 12.42.6)Shoe (Plain) 87.5 deg. 12.42.6.2) 110 mm dia	13	Each	104.56	1359
69	12.43	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.12.43.2) 110 mm	204	each	279.10	56937
70	12.44	Providing and fixing to the inlet mouth of rain water pipe cast iron grating 15 cm diameter and weighing not less than 440 grams.	13	Each	43.20	562





S.No.	SOR No	Description	Qty	Unit	Rate with L Cess excl GST	Amount
71	12.52	<p>Providing and fixing tiled false ceiling of specified materials of size 595x595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanized steel sections ( galvanized @ 120 grams/ sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge. 12.52.1) GI Metal Ceiling Lay in plain Tegular edge Global white color tiles of size 595x595 mm, and 0.5 mm thick with 8 mm drop; made of G I sheet having galvanizing of 100 gms/sqm (both sides inclusive) and electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending.</p>	638	sqm	1435.37	915416
72	16006	<p>Providing and fixing eco-friendly light weight calcium silicate false ceiling tiles having Tegular edge &amp; 15 mm Thick Densified edges on the Tile Periphery for Extra Strength The Light weight calcium silicate ceiling tiles shall have , light reflection 85% non-combustible as per B.S. 476 part IV, 100% humidity resistance and also having thermalconductivity0.043° w/m KC.for the best thermal Insulation . The Light weight calcium Silicate tile shall be of approved texture Fine fissured/ Spintone /Cosmos having NRC value of 0.5 &amp; Globe having NRC value of 0.75 NRC or equivalent of size 595 X 595 mm to be laid on true horizontal level suspended inter locking metal grid of hot dipped galvanized steelsections (galvanizing @120 grams per sqm including both side) consisting of main 'T'runner suitably spaced at joints to get required length and size of 24X38mm made from 0.30 mm thick (minimum) sheet, 1200mm centre to centre, and cross 'T' of size 24X28mm made out of 0.33mm (Minimum) sheet spaced 1200mm along space etc. An additional 4mm thick PVC strip of 40mm width is to be stuck on the interior side of the C channel using PVC solvent adhesive complete as per direction of Engineer in charge,manufactures.s at the back side so that 'L' shape outer PVC beading can be removed whenrequired for replacement of broken glass etc. complete as per direction of etc. complete as per direction of Engineer in charge and manufacture's specification.icationnre with 25mm long dry wall screws @ 230mm interval and laying 15mm thick Densified edges light weight calcium silicate ceiling tiles of approved texture (Fine Fissured /Cosmos /Spintone) in the grid including, cutting /making opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc., wherever required, Main 'T' runners to be suspended from ceiling using G.I. slotted cleats of size 25X35X1.6mm fixed to ceiling with 12.5mm dia and 50mm long dash fasteners, 4mm G.I. adjustable rods with galvanized steel level clips of size 85X30X0.8mm, spaced at 1200mm centre to centre long main 'T'bottom exposed with 24mm of all T-sections shall be pre-painted with polyester baked paint, for all heights, as per specifications, drawings and as directed by engineer-in charge.Note:- Only calcium silicate false ceiling area will be measured from wall to wall. No deduction shall be made for exposed frames/opening (cut outs) having area less than 0.30</p>	0	sqm	1648.96	





S.No.	SOR No	Description	Qty	Unit	Rate with L Cess excl GST	Amount
73	12.1	Providing corrugated G.S. sheet roofing including vertical / curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead, including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (up to any pitch in horizontal/ vertical or curved surfaces), excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.12.1.1) 1.00 mm thick with zinc coating not less than 275 gm/m <sup>2</sup> Providing ridges or hips of width 60 cm overall width plain G.S. sheet fixed with polymer coated J or L hooks, bolts and nuts 8 mm dia G.I. limpet and bitumen washers complete.	139	sqm	1333.55	185897
74	12.4.1	Providing ridges or hips of width 60 cm overall width plain G.S. sheet fixed with polymer coated J or L hooks, bolts and nuts 8 mm dia G.I. limpet and bitumen washers complete.	75	rmt	830.37	62278
		<b>TOTAL</b>				<b>1278459</b>
		<b>Sub- Head - X Finishing</b>				
75	17001A	Providing 10 mm thick Cement Plaster in single coat on brick/concrete Ceiling for interior plastering finished even and smooth in(i) Cement mortar 1:3 (1-cement :3- sand) as required to receive specified architectural finish (like Grooves, pattern if any, drip mould etc.) to correct line, plumb .etc - <b>Basement</b>	4596	sqm	153.67	706274
76	17001A	Providing 10 mm thick Cement Plaster in single coat on brick/concrete Ceiling for interior plastering finished even and smooth in(i) Cement mortar 1:3 (1-cement :3- sand) as required to receive specified architectural finish (like Grooves, pattern if any, drip mould etc.) to correct line, plumb .etc - <b>Ground Floor</b>	151	sqm	153.67	23189
77	17001A	Providing 10 mm thick Cement Plaster in single coat on brick/concrete Ceiling for interior plastering finished even and smooth in(i) Cement mortar 1:3 (1-cement :3- sand) as required to receive specified architectural finish (like Grooves, pattern if any, drip mould etc.) to correct line, plumb .etc - <b>First Floor</b>	172	sqm	161.36	27766
78	17001A	Providing 10 mm thick Cement Plaster in single coat on brick/concrete Ceiling for interior plastering finished even and smooth in(i) Cement mortar 1:3 (1-cement :3- sand) as required to receive specified architectural finish (like Grooves, pattern if any, drip mould etc.) to correct line, plumb .etc - <b>Second Floor</b>	90	sqm	169.43	15196
79	17001A	Providing 10 mm thick Cement Plaster in single coat on brick/concrete Ceiling for interior plastering finished even and smooth in(i) Cement mortar 1:3 (1-cement :3- sand) as required to receive specified architectural finish (like Grooves, pattern if any, drip mould etc.) to correct line, plumb .etc - <b>Terrace Floor</b>	113	sqm	177.90	20018
80	17001B	Providing 10 mm thick Cement Plaster in single coat on brick/concrete wall/ for interior plastering finished even and smooth in(i) Cement mortar 1:4 (1-cement :4- sand) as required to receive specified architectural finish (like Grooves, pattern if any, drip mould etc.) to correct line, plumb .etc - <b>Basement</b>	1767	sqm	116.13	205201



S.No.	SOR No	Description	Qty	Unit	Rate with L Cess excl GST	Amount
81	17001B	Providing 10 mm thick Cement Plaster in single coat on brick/concrete wall/ for interior plastering finished even and smooth in(i) Cement mortar 1:4 (1-cement :4- sand) as required to receive specified architectural finish (like Grooves, pattern if any, drip mould etc.) to correct line, plumb .etc - <b>Ground Floor</b>	3984	sqm	116.13	462642
82	17001B	Providing 10 mm thick Cement Plaster in single coat on brick/concrete wall/ for interior plastering finished even and smooth in(i) Cement mortar 1:4 (1-cement :4- sand) as required to receive specified architectural finish (like Grooves, pattern if any, drip mould etc.) to correct line, plumb .etc - <b>First Floor</b>	1497	sqm	121.94	182492
83	17001B	Providing 10 mm thick Cement Plaster in single coat on brick/concrete wall/ for interior plastering finished even and smooth in(i) Cement mortar 1:4 (1-cement :4- sand) as required to receive specified architectural finish (like Grooves, pattern if any, drip mould etc.) to correct line, plumb .etc - <b>Second Floor</b>	1217	sqm	128.04	155827
84	17001B	Providing 10 mm thick Cement Plaster in single coat on brick/concrete wall/ for interior plastering finished even and smooth in(i) Cement mortar 1:4 (1-cement :4- sand) as required to receive specified architectural finish (like Grooves, pattern if any, drip mould etc.) to correct line, plumb .etc - <b>3rd Floor</b>	677	sqm	134.44	91009
85	17009	20mm thick Double coat Sand Faced / Mala cement plaster on Exterior walls at for various floors, levels and height as below and shown in the drawing consisting of 12mm thick backing coat of C.M. 1:3 (1-cement :3-sand) and 8mm thick finishing coat of C.M. 1:2 (1-cement :2-sand) etc. complete. as required to receive specified architectural finish like Vata, Grooves, pattern if any, drip mould etc. to correct line, level and plumb .	1595	sqm	300.66	479555
86	19032	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.	13062	sqm	40.59	530211
87	18031	Wall painting (Three coats) with plastic emulsion paint of approved brand & manufacture on under coated wall surface to give an even shade including thoroughly brushing the surface free from mortar dropping and other foreign matter and sand papered smooth.	13062	sqm	79.22	1034829
88	19005	Painting two coats (excluding priming coat) on new steel and other metal surface with synthetic enamel paint, brushing to give an even shade including cleaning the surface of all dirt, dust and other foreign matter.	3023	sqm	65.31	197422
89	NS	Finishing walls with textured exterior paint of required shade :New work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including priming coat of exterior primer applied @ 2.20kg/10 sqm.	798	sqm	190.89	152237



S.No.	SOR No	Description	Qty	Unit	Rate with L Cess excl GST	Amount
90	N.S.	Terracotta tiles 20 mm thickness Maximum Length: 1500 mm, Height: 500 mm. The tiles would be back ventilated, with selfdraining open joint system. Tiles shall be double-leaf construction and have labyrinth top and bottom returns to prevent easy water access behind tiles. Water absorption to be in between 3% to 6% conforming to ISO 10545 - 3, average bending tensile strength of tile $\geq$ 18mm shall be $\geq$ 4500N conforming to ISO 10545-4, Freeze / Thaw resistance conforming to ISO 10545-12, Chemical resistance conforming to ISO 10545-13, Modulus of rupture shall be $\geq$ 16MPa conforming to ISO 10545-4, resistance to thermal shock shall be conforming to ISO 10545-9, Chemical resistance shall be no less than ULB level conforming to ISO 1054513, Resistance to stains shall be conforming to ISO 10545-14. The tiles shall be of approved Colour and finish. The tolerance allowed in length is $\pm$ 1mm, height of front side is $\pm$ 2mm, height of back side is +2mm & - 3mm, thickness is $\pm$ 1.5mm, straightness of side is $\pm$ 2mm, vertical flatness is $\pm$ 2mm, diagonal flatness is $\pm$ 2mm as per ISO10545-2. Aluminum support system: The support system consists of extruded Anodized Aluminum vertical Full T-& Half T Tracks of Alloy 6063T5. The dimension of T Tracks would be 102X53X2 mm and maximum length of 5000 mm. A vertical black PVC gasket (max. length 5000 mm) would be slide on the T-Track between two tiles at vertical joint for proper alignment and extra support. The T-Track is to be mounted on extruded anodized Aluminum dead-load and wind load Wall Bracket of Alloy 6063T5. The dimension of it would be 100/120 X 70/90 X 50 X 4 mm. The extruded Aluminum Clips of Alloy 6063T5 and thickness 2mm would be fastened on the prepunched T Track on which the Terracotta tiles are to be mounted. The vertical aluminum T-tracks with gaskets and tile clips shall serve to hold Terracotta Pure Natural Clay tiles. The Clay tiles will be resting on a double bulb rubber gasket fixed to the	798	sqm	6133.05	4891180
		<b>TOTAL</b>				<b>9175048</b>
		<b>Sub- Head - XI , Aluminium Work</b>				



S.No.	SOR No	Description	Qty	Unit	Rate with L Cess excl GST	Amount
91	RA	Providing and fixing of Anodised Aluminium (Matt finish) frame work as per IS 1868 (1996)(Horizontal and verticals , Styles and rails, ball bearing) for Doors/ window/ventilation/alluminum partition with required Domal sections including fixing all items and hinged / pivoted arrangements for operation of shutters and labour cost for fixing of door fittings and locks including all items and contingencies described above complete (Aluminium beadings and glazing clips & section measured under this item only) NOTE : All fitting works shall be carried out as per I.S. specifications including cost of necessary rivets, screws, lugs, scaffolding, rubber gaskets etc., complete all generally as per drawings. The sizes of the components should confirm as per details in drawings. Providing and fixing at all heights / in all floors with all leads. Colour Anodised Aluminium doors / windows / partitions manufactured from best extruded Aluminium sections confirming to ISI cut to length, joints mitred and corners grinded with joints water proof the outer frame and shutter frame stiffened with corner angle and strips provided for in the frame for fixing the frame to R.C.C Columns / masonry/Granite Frame on sides, R.C.C lintels/Granite Frame on top and P.C.C sills or floor at bottom, the frame work fixed with standard approved fastenings all generally as per details shown in drawings and specification with all the sections pretreated for removal of any rust & scales and prevention of further rust/scale formation and coated with greasy materials for non-adherence of mortar or any other sticky materials and this coat to be removed after installations 1)Sheet metal screws, wool pile and aluminium angle corner cleat of required thickness and of full width, etc. for assembling the frame and shutter; 2)Glazing clips for receiving infill panel for Double Glazed Unit (DGU), any type of Glass, Compact Sheet, Louvers; 3) Best quality wool pile where ever shutter touches the frame; 4) Anchor fasteners for fixing the frame assembly.	6388	kg	423.73	2706842
92	RA	Providing and fixing Clear Float Glass of any size, any shape and specified thickness and SHGC value 86 % in frame and shutter work with necessary cutting of glass as per drawing & specifications including providing and fixing EPDM quality rubber/silicon sealant/structural sealant of 3M tape on the periphery of the glass as per the required thickness etc. complete a tall floors/all levels/all heights as per the directions of Architect. Actual installed quantity shall be measured and paid. Rate shall be inclusive of all type of wastage. (a) 6 mm thick	426	sqm	1288.40	548702
93		Providing and fixing fly proof stainless steel grade 304 wire gauge, to windows and clerestory windows using wire gauge with average widthof aperture 1.4 mm in both directions with wire of dia. 0.50 mm all complete.with Aluminium beading	852	sqm	1051.41	895549



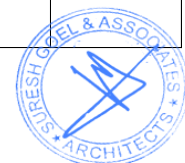
S.No.	SOR No	Description	Qty	Unit	Rate with L Cess excl GST	Amount
94	NS	Supply of Aluminium Ventilated Façade / Louver System of approved colour consisting of panel 50 mm wide x 50mm depth x 0.6mm thick panel length up to 5mtrs coil coated on a continuous paint line double baked and roll formed from enameled corrosion Resistance Aluminum Alloy AA3005 / AA5050 for higher strength and good Roll forming characteristics. Panels shall be mounted in a module of 100 mm on a mullion profile grooved (Slotted Fastening Profile) by means of Clamp, Locking Pop and Pop Rivet (Gap will be 50 mm between two panels). Slotted Fastening Profile shall be fixed at 150 mm from panel ends and at a distance of maximum 1200 mm center to center across the panel span and Slotted Fastening Profile shall be fixed to a suitable sub-structure by means of Square Brackets.Paint Finish:Panel shall be stove enamelled and finished with Luxacote, a patented special three layered coating system (consisting of first a conversion layer of thickness 800-2000mg/sq mtr, a polyurethane basecoat of 16-20 microns, and a special top coat of polyamide particles of 8-12 microns thick to provide excellent abrasion and damage resistance) in a continuous coil coating process of the approved colour on the exposed side and the reverse side with epoxy.	2434	sqm	5113.63	12448212
		<b>TOTAL</b>				<b>16599305</b>
		<b>Sub- Head - XII , Water Proofing</b>				
95		Supplying and laying composite 1.5mm thick, pre-applied, fully bonded HDPE membrane with double side adhesive which results in adhesive-to-adhesive bond - Prebond Pro or equivalent over P.C.C. conforming to BS 8102 & IS 16471:2017, requirements of UG waterproofing structures, with the turnkey execution to be done by the manufacturer through its in-house subsidiary execution company and with 10 years composite warranty against leakages, to be provided by the principal manufacturer. The system should be fully bonded to the Raft and consists of highly resilient HDPE film, self-adhesive polymer layer and weather protective layer. Typical application includes surface preparation by removing loose aggregates from PCC, foreign material, cleaning the surface etc., cutting membrane to convenient length, carefully aligning the membrane over blind concrete and rolling it out with print coated side facing up, laying adjacent sheets by keeping overlap of 75 mm, end overlaps to be treated using double sided tape and sealed tape etc.The membrane shall be continued over the vertical surface upto top of the Raft and fixed to shutter using double side adhesive tape. For application on confined retaining walls membrane shall be continued over the vertical surface and fixed by PVC roundels / shot guns at selvedge portion. The membrane shall have Tensile strength > 25 Mpa as per ASTM D 412 Modified, Elongation > 500% as per ASTM D 412 Modified, Puncture resistance > 1000 N as per ASTM E 154, Hydrostatic head resistance > 70m head of water as per ASTM D 5385,Low Temperature Flexibility: -25 deg C, Lap Peel Adhesion-880 N/m as per ASTM D1876, Peel Adhesion to Concrete > 1500 N/m as per ASTM D 903 Modified, UV Exposure > 45 Days.	3705	sqm	940.31	3483849



S.No.	SOR No	Description	Qty	Unit	Rate with L Cess excl GST	Amount
96	NS	Providing and laying of minimum 1.5 mm thick SBS modified self adhesive Samshield XL or equivalent waterproofing membrane topped with samshield HDPE valeron film, having tensile strength of L/T 3.5N/mm <sup>2</sup> as per ASTM D412 and with minimum elongation L/T of 180% (as per ASTM D 412). The membrane shall have puncture resistance of >200 N (as per ASTM E154). Hydrostatic pressure > 60 m (6BAR) No leakage as per DIN 1048, including cleaning the surface, priming the surface with cold applied bituminous primer @ 4-6 sqmtr/litre, properly sealing the joints & maintaining 75 mm overlap between the membrane selvedge & 100 mm overlap on the end joints of the membrane over the slab etc. The system includes base preparation of cleaning, brushing and removal of flacky materials, grouting the porous area with cementitious grout, proper coving between slab and wall junctions. The waterproofing system should be applied directly by the manufacturer approved applicator with 10 years of warranty against leakage.	1096	sqm	718.11	787049
97	22.3	Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C kitchen and the like consisting of : Ist course of applying cement slurry @ 4.4 Kg/sqm mixed with water proofing compound conforming to IS 2645 in recommended proportions including rounding off junction of vertical and horizontal surface. IInd course of 20 mm cement plaster 1: 3 (1 cement :3 coarse sand) mixed with water proofing compound in recommended proportion including rounding off junction of vertical and horizontal surface. IIIrd course of applying blown or residual bitument applied hot at 1.7 kg. per sqm of area. IVth course of 400 micron thick PVC sheet. ( Overlaps at joints of PVC sheet should be 100 mm wide and pasted to each other with bitument @ 1.7 kg/sqm.)	56	sqm	433.29	24264
98	NS	Terrace Waterproofing Works : Providing and applying single component PU based cold applied seamless waterproofing membrane over the primed surface with PU/Epoxy primer Layer on RCC mother slab, Insulation Layer: Spray applying an average minimum 65mm thick GRIHA enlisted CFC & HCFC free spray applied polyurethane foam and 2 coats of a single component PU based cold applied seamless waterproofing membrane over PU foam , 150 gsm Geotextile (non-woven polyester) over the entire membrane on horizontal areas maintaining proper overlaps and an avg of 100 mm thick M20 grade PP fiber reinforced concrete screed with Min. 75 mm thick at the rain water outlets, laid to a slope of 1 : 120, including saw cutting (approx 6mm W x 30mm D) at 3MX4M pannels within 24 hours of concrete placement and filling the groove with Expanded Polythylene backer rod keeping the top approx 10 mm depth open and sealing the groove on the top after 28 days of concrete placement with PU sealant or equivalent, and making angle fillet of 100mmX100mm using M20 grade concrete at the corners, compaction , curing for 7 days etc complete	2374	Sqm	2896.68	6876718
		<b>TOTAL</b>				<b>11171880</b>
		<b>Sub Head XIII - External development</b>				
99		Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavation earth to an average of 22.5cm depth dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth lead upto any lead.	1260	sqm	187.86	236704



S.No.	SOR No	Description	Qty	Unit	Rate with L Cess excl GST	Amount
100		Construction of granular Sub base providing coarse graded material, spreading in uniform layers with motor grader on prepared surface mixing by mix in place method with front end loader at OMC and compacting with vibratory roller to achieve the desired density, complete as per specification and direction of engineer in charge- With material conforming to Grade - I (size range 75mm to 0.075mm ) having CBR Value -30.	284	cum	2382.59	676656
101	DSR 16.80	Construction of dry lean cement concrete sub base over a prepared sub-grade with coarse and fine aggregate conforming to IS:383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per specifications, cement content not to be less than 150 Kg/cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, for all leads & lifts, laid with a mechanical paver, compacting with 8-10 tonne vibratory roller, finishing and curing etc. complete as per direction of Engineer in- charge.	189	cum	3551.16	671169
102	14033	Providing and fixing pre-cast Rubber Dye/ steel Dye interlocking concrete block 60mm thick with grade of concrete M300 pneumatic compressed/ vibrated mechanically and as per approved design Confirming to IS15658:2006 including 35mm Sand layer for levelling and filling the joint with sand in proper line and level as per guidelines of IRC : SP 63-2018 etc. Complete.	480	sqm	686.87	329698
103	14023A	Providing and fixing pre-cast concrete kerb stone of gray cement based concrete block 30cm length,30cm height and 15cm thick of M200 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:3 fine sand) etc complete.	21	metre	378.60	7951
104	DSR 16.43	Providing and laying design mix cement concrete of M-30 grade, in roads/ taxi tracks/ runways, using cement content as per design mix, using coarse sand and graded stone aggregate of 40 mm nominal size in appropriate proportions as per approved & specified design criteria, providing dowel bars with sleeve/ tie bars wherever required,laying at site, spreading and compacting mechanically by using needle and surface vibrators, levelling to required slope/ camber finishing with required texture, including steel form work with sturdy M.S. channel sections, curing, making provision for contraction / expansion, construction & longitudinal joints (10 mm wide x 50 mm deep) by groove cutting machine, providing and filling joints with approved joint filler and sealants, complete all as per direction of Engineer-in-charge (Item of joint fillers, sealants, dowel bars with sleeve/ tie bars to be paid separately). Cement content considered in M-30 is @ 410 kg/cum. Cement concrete manufactured in automatic batching plant (RMC plant) i/c transportation to site in transit mixer	189	cum	9499.05	1795320



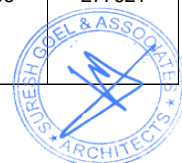


S.No.	SOR No	Description	Qty	Unit	Rate with L Cess excl GST	Amount
105	26096A	Parking Signs :-Providing and fixing sing boards made out of 2mm aluminium sheet; size 60 x 60cms. square plus 60 x 20cms rectangular additional plate as as per the design of IRC-67-1977 pre treated with phospheting process & acid etching; coated with one coat of epoxy primer and two coats of best quality epoxy paint;reflectorised with retro reflective sheeting as per latest M.O.S.T.Specifications; 3.1m long stand post and frame fabricated from suitable size iron angle of 35 x 35 x 3mm 75x75x6mm as required;painted with best quality epoxy coatings in black and white bends.the details of symbol for each board shall be as per the instruction of engineer in charge. The fixing at site shall be in 1:2:4 CC block of size 45 x 45 x 60cms. for each leg. including excavation curing etc.complete under the supervision of engineer in charge.(A) Engineer Grade(VR)	2	each	3833.71	7667
106	26090	Providing and fixing retro Reflective Engineering grade Board using C.R.C. (M.S.) Sheet 2mm, angle iron 75 x 75 x 6mm. Descaling and degreasing the board as per requirement using epoxyprimer epoxy paint and carrying retro reflective process by screen painting as directed etc. complete including transporting and fixing in C.C. 1:4:8 with necessary excavation curing etc. complete as per I.R.C type design.(A) Engineer Grade	4	each	8733.22	34933
107	26093C	Facility Informatory Sign :-Providing and fixing sign boards made out of 2mm aluminium sheet / 4mm ACP (Aluminum composite Panel); size 80 x 60 cms rectangular as per design of IRC-67-2012.Pre treated with phospheting process & acid etching; coated with one coat of epoxy primer and two coats of best quality epoxy paint ;reflectorised with Micro Prismatic Grade retro reflectivesheeting of Type-11 as per ASTM D-4956 and latest M.O.S.T.Specifications; 3.6mtr long stand post of 75 x 75 x 6mm / 65NB Circular MS Pipe as required and frame fabricated from suitable size iron angle of 35 x 35 x 3mm; painted with bestquality epoxy coatings in black and white bends. The details of symbol foreach board shall be as per theinstruction of engineer in charge. The fixing at site shall be in 1:2:4 CC blockof size 45 x 45 x 60 Cms. for each leg.including excavation, curing etc.complete under the supervision of engineer in charge. A warranty for 10 years for the Retro reflective sheeting from original manufacturer & a certified copy of 3 year outdoor exposure test report from third party test lab for the product offered shall be submitted by contractor. (A) Class-C Type-11 Retro Reflective sheeting	4	each	5906.48	23626
108		Painting road surface marking with adequate nos of coats to give uniform finish with ready mixed road marking paint conforming to IS : 164, on bituminous surface in white/yellow shade, including cleaning the surface of all dirt, scales, oil, grease and foreign material etc.complete. New work (Two or more coats)	25	sqm	160.59	4015

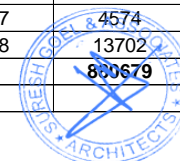




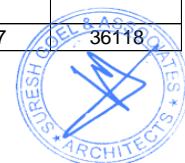
S.No.	SOR No	Description	Qty	Unit	Rate with L Cess excl GST	Amount
109	26004EA	Earthwork for embankment including breaking clods,dressing with all lead and lift and including watering rolling and consolidation of subgrade in layers at O.M.C.to required dry density including filling the depression which occur during the process using power roller 8Tto10T. (E) From Borrow area within all lead.	750	cum	396.68	297508
110	1.1	Carriage of materials including Loading, unloading and stacking complete.Earth for an average distance of 25 KM	750	cum	135.34	101505
111		Supplying and stacking at site dump manure from approved source, including carriage (manure measured in stacks will be reduced by 8% for payment) : Screened through sieve of I.S. designation 20mm	94	cum	229.27	21551
112		Fine dressing of the ground	2500	sqm	3.03	7575
113		Spreading of sludge, dump manure and / or good earth in required thickness as per direction of Engineer -in-charge (Cost of sludge, dump manure and / or good earth to be paid separately).	844	cum	47.47	40065
114		Mixing earth and sludge or manure in the required proportion specified or directed by the Engineer -in-charge.	844	cum	33.33	28131
115		Grassing with selection No.1 grass including watering and maintenance of the lawn for 30 days or more till the grass forms a thick lawn, free from weeds and fit for mowing including supplying good earth, if needed With grass Turf	2500	sqm	12.12	30300
116		Preparation of beds for hedging and shrubbery by excavating 60 cm deep and trenching the excavated base to a further depth of 30 cm, refilling the excavated earth after breaking clods and mixing withsludge or manure in the ratio of 8:1 (8 parts of stacked volume of earth after reduction by 20% : one part of stacked volume of sludge or manure after reduction by 8%), flooding with water, filling with earth if necessary, watering and finally fine dressing, leveling etc.including stacking and disposal of materials declared unserviceable and surplus earth by spreading and leveling as directed, within a lead of 50 m, lift up to 1.5 m complete (cost of sludge, manure or extra earth to be paid for separately).	504	cum	200.99	101299
117		Supplying & Stacking of Selection No.1 doob grass turf at site fresh & free from weeds having proper roots in green including loading, unloading, carriage and all taxes paid etc.and as per direction of officer in charge.	2500	sqm	45.45	113625
		<b>TOTAL</b>				<b>4529298</b>
		<b>Sub Head – XVII Sanitary Installation</b>				
118	17.3.1	Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10 litre low level white vitreous china flushing cistern & C.P. flush bend with fittings & C.I.brackets, 40 mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required : :W.C. pan with ISI marked white solid plastic seat and lid	4		6259.98	25040
119	N.S	Providing and fixing white vitreous china wall mounting water closet of size of approved shape including providing & fixing coneled cistern with dual flush fitting, of flushing capacity 2 litre/ 4 litre (adjustafle to 4 litre/8 litres), including seat cover, and cistern fittings, nuts, bolts and gasket etc complete.	12	each	23135.06	277621



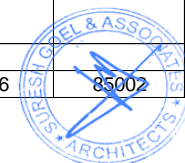
S.No.	SOR No	Description	Qty	Unit	Rate with L Cess excl GST	Amount
120	17.80	Providing and fixing white vitreous china battery based infrared sensor operated urinal of approx. size 610 x 390 x 370 mm having pre & post flushing with water ( 250 ml & 500 ml consumption), having water inlet from back side, including fixing to wall with suitable brackets all as per manufacturers specification and direction of Engineer-in-charge..	12	each	6316.54	75798
121	N.S	Providing and fixing white vitreous china wash basin under counter basin, with including 32 mm CP brass waste coupling, including painting of fittings and brackets, cutting and making good the walls wherever required all complete	12	each	3227.96	38736
122	17.22A	Providing and fixing 32mm C.P brass bottle Trap of approved quality & make as per the direction of engineer-in-charge.	14	each	798.91	11185
123	17.10.2.1	Providing and fixing stainless steel A ISI 304 (18/8) kitchen sink as per IS 13983 with C.I. Brackets and stainless steel plug 40 mm including painting of fittings and brackets, cutting and making good the walls wherever required.17.10.2)Kitchen sink without drain board. 17.10.2.1) 610 x 510 mm bowl depth 200 mm	4	each	3854.16	15417
124	17.28	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.17.28.1)Semi rigid pipe.17.28.1.2)40MM dia	4	each	91.91	368
125	N.S	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing:	4	Sqm	2728.01	11785
126	17.35	Providing and fixing soil, waste and vent pipes :				
	17.35.1	100 mm dia.				
	17.35.1.3	Hubless centrifugally cast (spun) iron pipes epoxy coated inside & outside IS:15905	258	metre	957.48	247030
127	17.39.1.3	Hubless centrifugally cast (spun) iron pipes epoxy coated inside & outside IS:15905	36	each	312.09	11235
128	17.57A	Providing and fixing shielded coupling for Hubless centrifugally cast iron pipe				
	17.57.1A	100 mm				
	17.57.A.1.1	SS 304 grade coupling with EPDM rubber gasket	48	each	366.63	17598
129	17.60.1.1	Hubless centrifugally cast (spun) iron pipes epoxy coated inside & outside IS:15905	28	each	685.79	19202
130	N.S	Providing and fixing CP with glass bottle liquid soap dispenser, of with nozzle and piston arrangement all complete as directed by the Engineer-in-Charge.	18	each	2529.04	45523
131	N.S	Providing and fixing S.S grating (with or without hole) for floor or Nahani trap. ( Make Jayana Model No TR 102 / Chilly or Equivalent )				
	a	for 100 mm dia. Pipe	45	each	356.53	16044
132	N.S	Providing and fixing G.I floor drain consisting of 100x50mm G.I elbow (grating and G.I pipe to be paid separately), complete as per instructions.	17	each	956.47	16260
133	N.S	Providing and fixing 100mm dia C.I Hubless inlet fitting consisting of 100mm dia main G.I pipe with multiple G.I. sockets (Inlets) of required diameter welded to it (as per site requirement) and fixing the same to C.I trap and setting in cement concrete, complete as per instructions of the Engineer in charge.	28	each	1071.61	30005
134	18.10	Providing and fixing of G.I pipe wall/ floor , cutting chases and making good with complete.				
	18.10.4	32 mm dia. nominal bore	7	metre	508.03	3556
	18.10.5	40 mm dia. nominal bore	7	metre	653.47	4574
	18.10.6	50 mm dia. nominal bore	17	metre	805.98	13702
		<b>Total</b>				<b>800679</b>
		<b>Water Supply</b>				



S.No.	SOR No	Description	Qty	Unit	Rate with L Cess excl GST	Amount
135	18.7	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.				
		Internal work – Exposed on wall.				
a	18.7.2	20 mm nominal outer dia Pipes	18	metre	292.90	5272
b	18.7.3	25 mm nominal outer dia Pipes	18	metre	368.65	6636
c	18.7.4	32 mm nominal outer dia Pipes	24	metre	451.47	10835
d	18.7.5	40 mm nominal outer dia Pipes	48	metre	608.02	29185
136	18.8	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.				
		Concealed work, including cutting chases and making good the walls etc.				
a	18.8.1	15 mm nominal outer dia Pipes	114	metre	397.94	45365
b	18.8.2	20 mm nominal outer dia Pipes	45	metre	463.59	20862
c	18.8.3	25 mm nominal outer dia Pipes	64	metre	564.59	36134
137	18.17	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) : Make SANT/ Zoloto/Leader/Audco				
a	18.17.1A	20 mm dia. nominal bore	6	each	416.12	2497
b	18.17.1	25 mm dia. nominal bore	34	each	479.75	16312
c	18.17.2	32 mm dia. nominal bore	17	each	532.27	9049
d	18.17.3	40 mm dia. nominal bore	17	each	638.32	10851
e	18.17.4	50 mm dia. nominal bore	4	each	791.84	3167
f	18.17.6	80 mm dia. nominal bore	4	each	2008.89	8036
138	N.S	Supply and fixing of 15mm CP brass Health Faucet with wall flange and suitable hose length CP brass extension pipe all of approved engineer-in-charge	12	each	1897.79	22773
139	N.S	Supply and fixing of 15mm CP brass 2 -Way Bib Cock ( single lever ) with wall flange and suitable length CP brass extension pipe all of approved engineer-in-charge	24	each	2450.26	58806
140	N.S	Providing and fixing C.P. brass pressmatic wall pillar cock ( auto closing ) mounted tap with wall flange	16	each	1670.54	26729
141	18.51	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.				
	18.51.1	15 mm nominal bore	9	each	639.33	5754
142	18.50	Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms.				
	18.50.1	15 mm nominal dia	4	each	644.38	2578
143	18.52	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.				
	18.52.1	15 mm nominal bore	12	each	536.31	6436
144	18.21	Providing and fixing uplasticised PVC connection pipe with brass ions :				
	18.21.2	45 cm length				
		15 mm nominal dia	80	each	67.67	5414
145	18.53	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 a) 15 mm nominal bore				
	18.53.1	15 mm nominal bore	80	each	451.47	36118



S.No.	SOR No	Description	Qty	Unit	Rate with L Cess excl GST	Amount
146	18.48	Providing and fixing on terrace ( at all floor levels ) polyethylene water storage tank, ISI : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet , outlet and overflow pipes but without fittings and the base support for tank.	5000	metre	9.09	45450
147		Supply ,Erection , Testing & Commissioning of Automatic water level control panel & related accessories for pumping automation with consisting of automatic water level controller , level sensor with stainless steel probe, motorized butterfly valve ( wafer type ) PN 1.0 with Electrical Actuator motorized valve controller with complete in all respect. Make : Zoloto - 1078D / Castle / Advance	2	set	24349.08	48698
148	18.85A	Providing and fixing Stainless Steel pipe and fitting of grade 316L as per IS 6911:2017 and conforming to EN-10312 standards complete with press type fitting (fitting shall be paid for separately) i/c fixing of the pipe with clamps at 1.00 m spacing including cutting and making good the walls including testing of joints complete as per direction of Engineer-in-charge. (The pipe length inserted in the fitting shall not be measured for payment)				
		Internal work - Exposed on wall				
a	18.85A.2	22 mm outer dia pipe	18	metre	773.66	13926
b	18.85A.3	28 mm outer dia pipe	30	metre	964.55	28937
c	18.85A.4	35 mm outer dia pipe	30	metre	1338.25	40148
d	18.85A.5	42 mm outer dia pipe	120	metre	1610.95	193314
149	18.86A	Providing and fixing Stainless Steel pipe and fitting of grade 316L as per IS 6911:2017 and conforming to EN-10312 standards complete with press type fitting (fitting shall be paid for separately) i/c fixing of the pipe with clamps at 1.00m spacing and also including cutting of chases and making good the walls including testing of joints complete as per direction of Engineer -in-charge. (The pipe length inserted in the fitting shall not be measured for payment)				
		Internal work - Concealed Pipe				
a	18.86A.1	15 mm outer dia pipe	27	metre	686.80	18544
b	18.86A.2	22 mm outer dia pipe	27	metre	928.19	25061
150	18.87A	Providing and fixing required Stainless Steel Fitting of press fit design of grade 316L as per IS 6911:2017 and conforming to EN-10312 standards with V-profile and with O-ring sealing gasket of EPDM material of required dia as per direction of Engineer-in-charge.				
		Coupling/Socket				
a	18.87A2	For 22 mm outer dia pipe	9	each	326.23	2936
b	18.87A3	For 28 mm outer dia pipe	15	each	379.76	5696
c	18.87A4	For 35 mm outer dia pipe	15	each	476.72	7151
d	18.87A5	For 42 mm outer dia pipe	60	each	645.39	38723
151	18.88A	Providing and fixing required Stainless Steel Fitting of press fit design of grade 316L as per IS 6911:2017 and conforming to EN-10312 standards with V-profile and with O-ring sealing gasket of EPDM material of required dia as per direction of Engineer-in-charge.				
		Reducer				
	18.88A.1	For 22mm x 15 mm outer dia pipe	120	each	308.05	36966
152	18.96A	Providing and fixing required Stainless Steel Fitting of press fit design of grade 316L as per IS 6911:2017 and conforming to EN-10312 standards with V-profile and with O-ring sealing gasket of EPDM material of required dia as per direction of Engineer-in-charge.				
		Female Thread Connector/ Adapter				
	18.96A.1	For 15 mm outer dia x 1/2" mm nominal dia threaded	160	each	531.26	85002



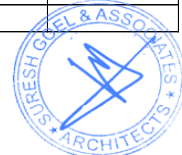
S.No.	SOR No	Description	Qty	Unit	Rate with L Cess excl GST	Amount
153	18.98	Providing and fixing required Stainless Steel Fitting of press fit design of grade AISI 304 conforming to JWWA G116 standard with V-profile or M-profile and with O-ring sealing gasket of EPDM material of required dia as per direction of Engineer-in-charge.				
		Valve Connector				
a	18.98.2	For 22.22 mm outer dia x 15 mm nominal dia threaded	12	each	337.34	4048
b	18.98.4	For 28.58 mm outer dia x 25 mm nominal dia threaded	12	each	513.08	6157
c	18.98.5	For 34.00 mm outer dia x 32 mm nominal dia threaded	6	each	777.70	4666
154	N.S	ACTIVATION Manual 50 Lph RO FILTRATION five Stage RO purification, Sediment, carbon and UV AUTO-OFF WATER FLOW No DRAINAGE TYPE Built in drain, Fixed drip tray EXTERIOR Brushed Stainless Steel inner shel thicken Stainless Steel-304 inlet connection 0.5" B.S.P Insulation ,50MM PUFF insulation, Reciprocating Hermetic Type compressor, R134a Refrigerent, fin tube type condenser, cooling capacity 200LPH, storage 200 ltr. Make. Oasis wfs/ Blue star/ voltas	1	Set	165385.48	165385
155	N.S	Supply, installation, testing and commissioning of solar water heating system, suitable for following specifications and capacities, complete with necessary storage tanks, accessories, insulation, GI piping, valves ,gaskets, support brackets, CC foundation where ever necessary as required for 300 ltrs capacity				
		System output temperature - 60 degree C				
		The solar panels shall confirm to BIS - 12933 part- I				
		Circulation type / thermo syphon system				
		The stainless steel water tank made of stainless steel of 304 grade and 2mm thick, duly insulated with 100mm thick rock wool of 48Kg /Cum density, duly cladded with aluminium sheet of 24SWG thickness				
		Support stand made of 50x50x5mm angle iron on suitable 1:2:4 CC foundation block.				
		The GI pipes with accessories shall be insulated with 50mm thick rock wool of 48Kg/ cum, duly cladding with aluminium sheet of 26 SWG thickness (For Hot water lines)				
		Suitable capacity of power backup with a facility to switch on automatically in cloudy condition and also with auto / manual selection arrangement				
a		200 LPD	1	each	35426.76	35427
b		1000 LPD		each	181069.77	



S.No.	SOR No	Description	Qty	Unit	Rate with L Cess excl GST	Amount
156	N.S	Supply of wall hanging smart tap, versafiller water cooler with bottle filler facility, made by stainless steel top and heavy duty galvanized steel frame. With cooling capacity 60LPH, ADA Compliant, size 960(H) x 413(W) x 473(D)(in mm) , SS bubbler guard , operated between 50 to 120 PSI, Chiller unit Suitable to R134a Refrigerant, with-non flammable foam Adjustable thermostat control, suitable for 220-230v/50-60 hz A/C Supply Complete with all accessories which include MD-CU29 Push Pad, which is an EPA registered antimicrobial copper that fights off microorganisms which include MRSA and e-coli. Key Versafiller moulded components shall contain Freshield, which utilises a silver-based antimicrobial compound that reduces the growth of micro-organisms and mildew to protect the surfaces from discolouration, odours and degradation The online water cooler certified with UL, NSF-USA, TUV, GRIHA-Green building, ANSI/NSF 61, CABO/ANSI A117.1, ADA, CE , WRAS certification, Mechanical Operation at both dispencing point with UV light and to be placed at different location of buidling. installing the Water Fountain for proper functioning and aesthetic view as directed by the engineer-in-charge without any extra cost. Make-Oasis/Filtrin/sunrock/Murdock.	2	each	73271.46	146543
157	18.12	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc.:				
a	18.12.5	40 mm diameter pipe	100	metre	503.99	50399
b	18.12.6	50 mm diameter pipe	100	metre	589.84	58984
158	18.40	Painting G.I. pipes and fittings with two coats of anti-corrosive bitumastic pant of approved quality :				
	18.40.5	40 mm diameter pipe	100	metre	19.19	1919
	18.40.6	50 mm diameter pipe	100	metre	23.23	2323
159	18.41	Providing and filling sand of grading zone V or coarser grade all-round the G.I. pipes in external work.				
a	18.41.5	40 mm diameter pipe	100	metre	153.52	15352
b	18.41.6	50 mm diameter pipe	100	metre	159.58	15958
160	18.20	Providing and fixing brass ferrule with C.I. mouth cover including boring and tapping the main :				
	18.20.3	25 mm nominal bore	4	each	402.99	1612
161	18.31	Providing and fixing of cast iron sluice valves ( with cap ) complete with bolts, nuts, rubber insertions etc. ( the tail pieces if required will be paid separately):				
	18.31.1	100 mm diameter				
	18.31.1	Class II	8	each	4058.18	32465
162	18.32	Constructing masonry Chamber 30x30x50 cm inside, in brick working cement mortar 1:4 (1 cement :4 coarse sand)for stop cock, with C. I. surface box 100x100 x75 mm (inside) with hinged cover fixed in cement concrete slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), i/c necessary excavation, foundation concrete 1:5:10 ( 1 cement : 5 dine sand : 10 graded stone aggregate 40mm nominal size ) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12mm thick, finished with a floating coat of neat cement complete as per standard design :				
	18.32.1	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	25	each	1544.29	38607

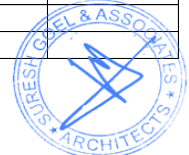


S.No.	SOR No	Description	Qty	Unit	Rate with L Cess excl GST	Amount
163	18.33	Constructing masonry Chamber 60x60x75 cm inside, in brick working cement mortar 1:4 (1 cement :4 coarse sand) for sluice valve, with C. I. surface box 100 mm top diameter, 160 mm bottom diameter and 180 mm deep ( inside ) with chained lid and RCC top slab 1:2:4 mix ( 1 cement : 2 cement : 2 coarse sand : 4 graded stoe aggregate 20mm nominal size) i/c necessary excavation, foundation concrete 1:5:10 ( 1 cement : 5 dine sand : 10 graded stone aggregate 40mm nominal size ) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12mm thick, finished with a floating coat of neat cement complete as per standard design :				
	18.33.1	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	4	each	9110.20	36441
164	18.34	Constructing masonry Chamber 90x90x100 cm inside, in brick working cement mortar 1:4 (1 cement : 4 coarse sand)for sluice valve, with C.I. surface box 100mm top diameter, 160 mm bottom diameter and 180 mm deep ( inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size ) , i/c necessary excavation, foundation concrete 1:5:10 (1 cement :5 dine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design :				
	18.34.1	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	4	each	15851.95	63408
165	18.59	Providing and fixing C.I. double acting air valve of approved quality with bolts, nuts, rubber insertion etc. complete ( The tail pieces, tapers etc if required will be paid separately) :				
	18.59.3	100 mm dia	4	each	7407.34	29629
166	18.70	Providing push-on-joints to centrifugally (Spun) cast iron or Dectile Iron pipes including testing of joints and including the cost of rubber gasket.				
	18.70.1	100 mm dia Pipes	400	Joint	86.86	34744
167	18.72	Providing and laying S & S centrifugally cast (Spun) pipes conforming to IS : 8329				
	18.72.15	100 mm dia Ductile Iron class K-9 pipes	2400	metre	974.65	2339160
168	18.80	Disinfecting CI water mains by flusing with water containing bleaching powder at 0.5 gms per ltrs of water and cleaning the same with fresh water, operation to be repeted three times including getting the sample of water from the disinfected main tested in the municipal laboratory.				
	18.80.2	150 mm dia meter CI pipe	24	100.0M	2682.56	64381
169	18.9	Providing and fixing chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings. This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge.				
a	18.9.3	25 mm nominal outer dia Pipes	250	metre	334.31	83578
b	18.9.6	50 mm nominal outer dia Pipes	400	metre	732.25	292900
c	18.9.8	80 mm nominal outer dia Pipes	200	metre	1794.77	358954
d	18.9.10	100 mm nominal inner dia Pipes	950	metre	2535.10	2408345
170	NS	SS TANK 400LTR	1	NOS	216428.86	216429
		<b>Total</b>				<b>7467175</b>
		<b>Sub Head : Drainage</b>				





S.No.	SOR No	Description	Qty	Unit	Rate with L Cess excl GST	Amount
171	N.S	Supply and fixing of DWC ( Double Wall Corrugated ) Pipe soil / waste pipe under ground drainage system ( SN 8 ) soil and waste pipes jointed with rubber ring with good quality lubricant with slovent cement. As per IS - 16098-II for pipes and IS fittings, inclusive of all necessary specials like bends, tees, offsets, junctions, etc., laid under floor/under ceiling/on walls with suitable clamps and specials curing, necessary chasing, jointing and restoring to original conditions, testing etc. as directed by Engineer - in- Charge. Make Astral / Prince / Supreme				
a	a	150 mm diameter	14	metre	349.46	4892
b	b	200 mm diameter	60	metre	417.13	25028
c	c	250 mm diameter	950	metre	595.90	566105
172	19.2	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand: 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete as per standard design:				
a	19.2.2	150 mm diameter	14	metre	987.78	13829
b	19.2.3	200 mm diameter	60	metre	1151.40	69084
c	19.2.4	250 mm diameter	950	metre	1331.18	1264621
173	19.4	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design :				
	19.4.3	180x150 mm size P type				
	19.4.3.1	With common burnt clay . (non modular) bricks of class designation 7.5	14	each	2285.63	31999
174	19.6	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :				
a	19.6.2	150 mm dia. R.C.C. pipe	360	metre	444.40	159984
b	19.6.3	250 mm dia. R.C.C. pipe	450	metre	731.24	329058
c	19.6.4	300 mm dia. R.C.C. pipe	400	metre	813.05	325220
175	19.35	Providing and laying non-pressure NP3 class (Medium duty) R.C.C. pipes including with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :				
	19.35.1	450 mm dia. R.C.C. pipe	200	metre	2151.30	430260
176	19.7	Constructing brick masonry manhole in cement mortar 1:4 ( 1 cement :4 coarse sand ) with R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size),foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size), inside plastering 12mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement complete as per standard design :				
	19.7.1	Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) :				
	19.7.1.1	With common burnt clay (non modular) bricks of class designation 7.5	27	each	10539.35	284562
177	19.8	Extra for depthfor manholes				
	19.8.1	Size 90x80 cm				





S.No.	SOR No	Description	Qty	Unit	Rate with L Cess excl GST	Amount
	19.8.1.1	With common burnt clay (non modular) bricks of class designation 7.5	5	metre	8787.00	39542
178	19.9	Constructing brick masonry circular type manhole 0.91m internal dia at bottom and 0.56m dia at top in cement mortar 1:4 (1 cement :4 coarse sand), in side cement plaster 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement, foundation concrete 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size), and making necessary channel in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement, all complete as per standard design :				
	19.9.1	0.91 m deep with S.F.R.C. cover and frame (heavy duty, HD-20 grade designation) 560mm internal diameter conforming to I.S. 12592, total weight of cover and frame to be not less than 182kg., fixed in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including centering, shuttering all complete. (Excavation, foot rests and 12mm thick cement plaster at the external surface shall be paid for separately)				
	19.9.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	15	each	10719.13	160787
179	19.10	Extra depth for circular type manhole 0.91m internal dia (at bottom) beyond 0.91m to 1.67m				
	19.10.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	2	metre	6300.38	9451
180	19.11	Constructing brick masonry circular type manhole 1.22m internal dia at bottom and 0.56m dia at top in cement mortar 1:4 (1 cement :4 coarse sand), in side cement plaster 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement, foundation concrete 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size), and making necessary channel in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement, all complete as per standard design :				
	19.11.1	1.68m deep with S.F.R.C. cover and frame (heavy duty, HD-20 grade designation) 560mm internal diameter conforming to I.S. 12592, total weight of cover and frame to be not less than 182kg., fixed in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including centering, shuttering all complete. (Excavation, foot rests and 12mm thick cement plaster at the external surface shall be paid for separately)				
	19.11.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	23	Each	20697.93	476052
181	19.12	Extra depth for circular type manhole 1.22m internal dia (at bottom) beyond 1.68m to 2.29m				
	19.12.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	2	metre	8177.97	18809



S.No.	SOR No	Description	Qty	Unit	Rate with L Cess excl GST	Amount
182	19.13	Constructing brick masonry circular type manhole 1.52m internal dia at bottom and 0.56m dia at top in cement mortar 1:4 (1 cement :4 coarse sand), in side cement plaster 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement, foundation concrete 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size), and making necessary channel in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement, all complete as per standard design :				
	19.13.1	2.30m deep with S.F.R.C. cover and frame (heavy duty, HD-20 grade designation) 560mm internal diameter conforming to I.S. 12592, total weight of cover and frame to be not less than 182kg., fixed in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including centering, shuttering all complete. (Excavation, foot rests and 12mm thick cement plaster at the external surface shall be paid for separately)				
	19.13.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	10	each	44361.22	443612
183	19.14	Extra depth for circular type manhole 1.52m internal dia (at bottom) beyond 2.30 m:				
	19.14.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	1	metre	19030.42	19030
184	19.15	Providing M.S. foot rests including fixing in manholes with 20x20x10 cm cement concrete blocks 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) as per standard design :				
	19.15.1	With 20x20 mm square bar	160	each	416.12	66579
185	19.27	Constructing brick masonry road gully chamber 50x45x60 cm with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) including 500x450 mm pre-cast R.C.C. horizontal grating with frame complete as per standard design :				
	19.27.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	165	each	5040.91	831750
186	2.10	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m :				
	2.10.1	All kinds of soil				
	2.10.1.2	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia.	1618	metre	376.73	609549
		<b>Total</b>				<b>6179803</b>
187	23.1	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer -in-charge, upto 90 metre depth below ground level.				
	23.1.1	All types of soil.				
	23.1.1.3	400 mm dia	180	metre	747.40	134532



S.No.	SOR No	Description	Qty	Unit	Rate with L Cess excl GST	Amount
188	23.2	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer -in-charge, beyond 90 metre & upto 150 metre depth below ground level.				
	23.2.1.3	400 mm dia	20	metre	934.25	18685
189	23.10.3	Supplying, assembling, lowering and fixing in vertical position in bore well,ERW ( Electronic Resistance Welded ) EE 410 mild stell pipes of required dia , conforming to IS: 4270, of required and approved make , including painted with outside surface with two coat of anticorrosive paint approval brand and manufacture, including hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer -in-charge.				
	23.10.3	200 mm nominal size dia havining minimum wall thickness 5.4 mm	180	metre	1877.59	337966
190	23.11	Supplying, assembling, lowering and fixing in vertical position in bore well,ERW ( Electronic Resistance Welded ) EE 410 plain slotted ( having slot of size 1.6/3.2 mm ) steel threaded and socketed / plain bevel ended pipe m( type A ) of requirred di conforming to IS: 8110, of required and approved make , having wall thicknes not less than 5.40 mm , including painted with outside surface with two coat of anticorrosive paint approval brand and manufacture, including hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer -in-charge.				
	23.11.3	200 mm nominal size	20	metre	1979.60	39592
191	23.12	Development of tube well in accordance with IS : 2800 (part I) and IS: 11189, to establish maximum rate of usable water yield without sand content (beyond permissible limit), with required capacity air compressor, running the compressor for required time till well is fully developed, measuring yield of well by "V" notch method or any other approved method, measuring static level & draw down etc. by step draw down method, collecting water samples & getting tested in approved laboratory, i/c disinfection of tubewell, all complete, including hire & labour charges of air compressor, tools & accessories etc., all as per requirement and direction of Engineer-in-charge.	100	hour	827.19	82719
192	23.9	Providing and fixing factory made precast RCC perforated drain covers, having concrete of strength not less than M-25, of size 1000 x 450x50 mm, reinforced with 8 mm dia four nos longitudinal & 9 nos cross sectional T.M.T. hoop bars, including providing 50 mm dia perforations @ 100 to 125 mm c/c, including providing edge binding with M.S. flats of size 50 mm x 1.6 mm complete, all as per direction of Engineer-in-charge.	2	each	1093.83	2188
193	23.13	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for borewell of:				
	23.13.3	200 mm dia	2	each	253.51	507
194	23.14	Providing and fixing M.S. clamp of required dia to the top of casing housing pipe of tubewell as IS 2800 ( Part I ) , including necessary bolts & nuts of required size complete,				
	23.14.3	200 mm clamp	2	each	1647.31	3295



S.No.	SOR No	Description	Qty	Unit	Rate with L Cess excl GST	Amount
195	23.15	Providing and fixing Bail plug/ Bottom plug of required dia to the bottom of pipe assembly of tubewell as per IS:2800 (part I).				
	23.15.3	200 mm dia	2	each	277.75	556
196	23.9	Gravel packing in tubewell construction in accordance with IS: 4097, including providing gravel fine/ medium/ coarse, in required grading & sizes as per actual requirement, all complete as per direction of Engineer-in-charge.	8	cum	1334.21	10674
197	18.10	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc.				
	18.10.6	50 mm dia nominal bore	220	metre	805.98	177316
		Total				<b>808030</b>
		Electrical				
198	1.2.1	Point wiring for light/bell with 2X1.5 sq. mm & 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 with 6A Modular type switch/bell push & accessories and earth continuity of following type erected on PVC/metallic/wooden Box single mounting base frame, covered with textured/metalic white front plate modules erected on / in wall / ceiling as per pipe erected with necessary lamp holder/ ceiling rose/ H.D Connector as directed. (f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete.Cat III	208	point	449.45	93485.6
199	1-1-4.	Point wiring for Tissino / Modular secondary light point with 2-1.5 sq.mm & earth wire of 1.5 sq.mm (green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires, in below type of pipe to be erected complete with earth continuity and necessary connection with primary light with accessories erected on Metal / PVC / wooden box covered with 3 mm thick PC(Polycarbonate) / Acrylic sheet for open / concealed wiring. with necessary Lamp holder / ceiling rose / H.D.Connector as directed. Note:- Maximum up to 6 mtrs length, excess will be considered as Mains for Secondary Point. (f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete	200	point	151.50	30300
200	1.2.2	Point wiring for Fan with 2X1.5 sq. mm & 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 with 6A Modular type switch and num 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 /wooden Box single mounting base frame, covered with textured/ metalic white front plate modules erected on / in wall / ceiling as per pipe erected with necessary ceiling rose/ H.D Connector as directed. (f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete-Cat III	26	point	629.23	16359.98
201	1.2.6.a	Providing following type of Modular type Accessories mounted with PVC/metallic.wooden box, single mounting base frame covered with textured / metallic / white front plate, modules erected with necessary connections as per site situation directed by Engineer in charge.-(1) One no. SP 6 Amp.-Cat III	29	each	144.43	4188.47



S.No.	SOR No	Description	Qty	Unit	Rate with L Cess excl GST	Amount
202	1.2.6.b	Providing following type of Modular type Accessories mounted with PVC/metallic.wooden box, single mounting base frame covered with textured / metallic / white front plate, modules erected with necessary connections as per site situation directed by Engineer in charge.-(2) One No 5 pin plug-Cat III	29	each	144.43	4188.47
203	1.2.6.c	Providing following type of Modular type Accessories mounted with PVC/metallic.wooden box, single mounting base frame covered with textured / metallic / white front plate, modules erected with necessary connections as per site situation directed by Engineer in charge.-(9) 16Amp, SP one way switch-Cat III	99	each	172.71	17098.29
204	1.2.6.d	Providing following type of Modular type Accessories mounted with PVC/metallic.wooden box, single mounting base frame covered with textured / metallic / white front plate, modules erected with necessary connections as per site situation directed by Engineer in charge.-(10 ) 6/16 Amp, Universal socket-Cat III	99	each	190.89	18898.11
205	1.2.6.e	Providing following type of Modular type Accessories mounted with PVC/metallic.wooden box, single mounting base frame covered with textured / metallic / white front plate, modules erected with necessary connections as per site situation directed by Engineer in charge.-(13) 6A/10A/16A/20A/25A/32A Single pole Modular MCB Switch -Cat III	3	each	295.93	887.79
206	1.6.17	Providing & erecting insulated socket 3P+N+E with Plug 32A rating which is comprised of Four pole MCB slot and insulated socket IP40 cat-III	1	each	2094.74	2094.74
207	1.4.1.A	Providing & erecting Mains with 1.1 KV grade FRLS PVC insulated ISI marked standard 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 standard 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	700	metre	59.59	41713
208	1.4.2.(A).i	Providing & erecting Mains with 1.1 KV grade FRLS PVC insulated ISI marked standard copper conductor wire in following type of pipe to be erected in / on wall / ceiling, with 2.5 sq.mm copper conductor FRLS PVC insulated standard wire of green colour for earth continuity of following size.-(A) with medium class Rigid PVC pipe and accessories-(a) 2 wire 4 sq. mm	1700	metre	107.06	182002
209	1.4.2.(A).ii	Providing & erecting Mains with 1.1 KV grade FRLS PVC insulated ISI marked standard copper conductor wire in following type of pipe to be erected in / on wall / ceiling, with 2.5 sq.mm copper conductor FRLS PVC insulated standard wire of green colour for earth continuity of following size.-(A) with medium class Rigid PVC pipe and accessories-(b) 2 wire 6 sq. mm	460	metre	140.39	64579.4
210	1.4.2.(A).ii i	Providing & erecting Mains with 1.1 KV grade FRLS PVC insulated ISI marked standard copper conductor wire in following type of pipe to be erected in / on wall / ceiling, with 2.5 sq.mm copper conductor FRLS PVC insulated standard wire of green colour for earth continuity of following size.-(A) with medium class Rigid PVC pipe and accessories-(g) 4 wire 4 sq. mm	110	metre	172.71	18998.1



S.No.	SOR No	Description	Qty	Unit	Rate with L Cess excl GST	Amount
211	1.4.2.(A).i v	Providing & erecting Mains with 1.1 KV grade FRLS PVC insulated ISI marked standard copper conductor wire in following type of pipe to be erected in / on wall / ceiling, with 2.5 sq.mm copper conductor FRLS PVC insulated standard wire of green colour for earth continuity of following size.-(A) with medium class Rigid PVC pipe and accessories-(H) 4 wire 6 sq. mm	240	metre	248.46	59630.4
212	1.4.2.(A).v	Providing & erecting Mains with 1.1 KV grade FRLS PVC insulated ISI marked standard copper conductor wire in following type of pipe to be erected in / on wall / ceiling, with 2.5 sq.mm copper conductor FRLS PVC insulated standard wire of green colour for earth continuity of following size.-(A) with medium class Rigid PVC pipe and accessories-(I) 4 wire 10 sq. mm (use earth wire of 4 sq. mm)	370	metre	405.01	149853.7
213	1-4-4.a	providing and erecting Mains with ISI marked, 1.5KV grade electrolyte multi stranded, annealed copper conductor with heat resistant PVC insulated conforms to IS 694, IEC - 227 erected in existing pipe of following size (Specifically for control panel, relays, power switchgears, motor starters & control wiring) with required size of copper lugs, nuts and bolts if required..(g) One wire 16.00 sq. mm	280	metre	135.34	37895.2
214	1-4-4.b	providing and erecting Mains with ISI marked, 1.5KV grade electrolyte multi stranded, annealed copper conductor with heat resistant PVC insulated conforms to IS 694, IEC - 227 erected in existing pipe of following size (Specifically for control panel, relays, power switchgears, motor starters & control wiring) with required size of copper lugs, nuts and bolts if required..(e) One wire 6.00 sq. mm	140	metre	53.53	7494.2
215	1-3-2.	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	70	metre	32.32	2262.4
216	1.2.3.a	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.-(I) For 6A Plug and 6A switch with 2X1.5 sq.mm Cu wire from nearby switchboard/MCB DB board.-(f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete-Cat III	29	point	473.69	13737.01
217	1.2.3.b	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.-For 16A Plug and 16A switch with 2X4 sq.mm cU wire with 2.5 sq.mm (Green) earthing wire from MCB DB Board. (f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete-Cat III	99	point	818.10	80991.9



S.No.	SOR No	Description	Qty	Unit	Rate with L Cess excl GST	Amount
218	MR	Fabrication, supply, installation, testing and commissioning of wall/floor maounted cubicle type LT panels suitable for 415 V 3 phase, 4 wire, 50 Hz AC supply system (IP 42 degree of protection) fabricated in compartmentalized design from CRCA sheet made out of 2 mm thick for frame work & covers 3mm thick for gland plates including cleaning & finishing complete with 7 tank process for powder coating in approved shade, <b>Main Panel - Animal Facility Block</b> -Incoming: 630 A, FP MCCB 36 KA - 2 No. 800 A TPN AL. bus bar with coloured heat shrinkable PVC sleeve -1 Set, Bus Coupler :630 A, FP MCCB 36 KA - 1 No., Outgoings: Section-A, 100 A TPN MCCB, 25 KA - 3 Nos, 125 A TPN MCCB, 25 KA - 1 Nos., 63 A TPN MCCB, 25 KA - 2 Nos., Section-B, 250 A TPN MCCB, 36 KA - 1 Nos., 100 A TPN MCCB, 25 KA - 2 Nos., 125 A TPN MCCB, 25 KA - 2 Nos., 63 A TPN MCCB, 25 KA - 3 Nos., Instruments: Multi Function Meter (MFM) with CTs & Fuses/MCB/Selector Switch -1 Set , Indication lamp RYB with Fuses/MCB etc. as req.	1	each	382461.75	382461.75
219	MR	Fabrication, supply, installation, testing and commissioning of wall/floor maounted cubicle type LT panels suitable for 415 V 3 phase, 4 wire, 50 Hz AC supply system (IP 42 degree of protection) fabricated in compartmentalized design from CRCA sheet made out of 2 mm thick for frame work & covers 3mm thick for gland plates including cleaning & finishing complete with 7 tank process for powder coating in approved shade, <b>AUTO CLAVE PANEL -- Animal Facility Block</b> - Incoming:250 A, TPN MCCB 36 KA - 1 No., 300 A TPN AL. bus bar with coloured heat shrinkable PVC sleeve -1 Set., Outgoings:125 A TPN MCCB, 25 KA - 2 Nos., 100 A TPN MCCB, 25 KA - 1 Nos. Instruments: Multi Function Meter (MFM) with CTs & Fuses/MCB/Selector Switch -1 Set, Indication lamp RYB with Fuses/MCB etc. as req.	1	each	78997.15	78997.15





S.No.	SOR No	Description	Qty	Unit	Rate with L Cess excl GST	Amount
220	MR	Fabrication, supply, installation, testing and commissioning of wall/floor maounted cubicle type LT panels suitable for 415 V 3 phase, 4 wire, 50 Hz AC supply system (IP 42 degree of protection) fabricated in compartmentalized design from CRCA sheet made out of 2 mm thick for frame work & covers 3mm thick for gland plates including cleaning & finishing complete with 7 tank process for powder coating in approved shade <b>ESSENTIAL PANEL -- Animal Facility Block</b> -Incoming:63 A, FP MCB - 1 No., 200 A TPN AL. bus bar with coloured heat shrinkable PVC sleeve -1 Set, Outgoings:32 A TP MCB - 6 Nos., Instruments: Multi Function Meter (MFM) with CTs & Fuses/MCB/Selector Switch -1 Set, Indication lamp RYB with Fuses/MCB etc. as req.	1	each	10731.25	10731.25
221	MR	Fabrication, supply, installation, testing and commissioning of wall/floor maounted cubicle type LT panels suitable for 415 V 3 phase, 4 wire, 50 Hz AC supply system (IP 42 degree of protection) fabricated in compartmentalized design from CRCA sheet made out of 2 mm thick for frame work & covers 3mm thick for gland plates including cleaning & finishing complete with 7 tank process for powder coating in approved shade <b>LIFT PANEL (3 Lifts) - Animal Facility Block</b> -Incoming:125 A, FP MCCB 35 KA - 1 No., 200 A TPN AL. bus bar with coloured heat shrinkable PVC sleeve-1 Set, Outgoings:63 A TPN MCCB, 25 KA - 3 Nos., 32 A DP MCB - 2 Nos., Instruments: Multi Function Meter (MFM) with CTs & Fuses/ MCB/ Selector Switch -1 Set, Indication lamp RYB with Fuses/MCB etc. as req.	1	each	51580.70	51580.7
222	MR	Fabrication, supply, installation, testing and commissioning of wall/floor maounted cubicle type LT panels suitable for 415 V 3 phase, 4 wire, 50 Hz AC supply system (IP 42 degree of protection) fabricated in compartmentalized design from CRCA sheet made out of 2 mm thick for frame work & covers 3mm thick for gland plates including cleaning & finishing complete with 7 tank process for powder coating in approved shade <b>FDB PANEL -1-- Animal Facility Block</b> - Incoming:100 A, FP MCCB 25 KA - 1 No., 200 A TPN AL. bus bar with coloured heat shrinkable PVC sleeve -1 Set, Outgoings:63 A TPN MCCB, 25 KA - 6 Nos., Instruments: Multi Function Meter (MFM) with CTs & Fuses/MCB/Selector Switch -1 Set, Indication lamp RYB with Fuses/MCB etc. as req.	1	each	78961.80	78961.8
223	MR	Fabrication, supply, installation, testing and commissioning of wall/floor maounted cubicle type LT panels suitable for 415 V 3 phase, 4 wire, 50 Hz AC supply system (IP 42 degree of protection) fabricated in compartmentalized design from CRCA sheet made out of 2 mm thick for frame work & covers 3mm thick for gland plates including cleaning & finishing complete with 7 tank process for powder coating in approved shade <b>FDB PANEL -2-- Animal Facility Block</b> -Incoming:100 A, FP MCCB 25 KA - 1 No., 200 A TPN AL. bus bar with coloured heat shrinkable PVC sleeve -1 Set, Outgoings:63 A TPN MCCB, 25 KA - 7 Nos., Instruments: Multi Function Meter (MFM) with CTs & Fuses/MCB/Selector Switch -1 Set, Indication lamp RYB with Fuses/MCB etc. as req.	1	each	89506.20	89506.2

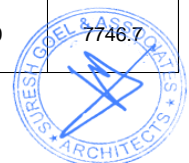




S.No.	SOR No	Description	Qty	Unit	Rate with L Cess excl GST	Amount
224	MR	Fabrication, supply, installation, testing and commissioning of wall/floor maounted cubicle type LT panels suitable for 415 V 3 phase, 4 wire, 50 Hz AC supply system (IP 42 degree of protection) fabricated in compartmentalized design from CRCA sheet made out of 2 mm thick for frame work & covers 3mm thick for gland plates including cleaning & finishing complete with 7 tank process for powder coating in approved shade <b>FDB PANEL -3-- Animal Facility Block</b> , Incoming:100 A, FP MCCB 25 KA - 1 No., 200 A TPN AL. bus bar with coloured heat shrinkable PVC sleeve -1 Set, Outgoings:63 A TPN MCCB, 25 KA - 4 Nos., Instruments: Multi Function Meter (MFM) with CTs & Fuses/MCB/Selector Switch -1 Set, Indication lamp RYB with Fuses/MCB etc. as req.	1	each	57883.10	57883.1
225	3.4.1	Providing and erecting approved make Four pole moulded case circuit breaker having breaking capacity ICU of 25 KA at 415 V, having normal current rating up to 25A to 100A, with fixed thermal & magnetic release suitable to work on AC supply 50c/s with all internal connections & cocomplete erected in existing 16 G.M.S housing.-d) cat III	2	each	6173.12	12346.24
226	3.11.5.a	Providing & erecting sheet steel powder coated MCB distribution board - flush / surface mounted fitted with busbar, neutral link, earth bar and DIN rail, confirms 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, (b) sheet steel double door (IP-43), 8 way Double door	2	each	1152.41	2304.82
227	3.11.5.B.i	Providing & erecting sheet steel powder coated MCB distribution board - flush / surface mounted fitted with busbar, neutral link, earth bar and DIN rail, confirms 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- Three phase incoming and single phase horizontal type outgoing per phase isolation type (PPI), (b) sheet steel double door-(i)4 way	2	each	2339.16	4678.32
228	3.11.5.B.ii	Providing & erecting sheet steel powder coated MCB distribution board - flush / surface mounted fitted with busbar, neutral link, earth bar and DIN rail, confirms 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- Three phase incoming and single phase horizontal type outgoing per phase isolation type (PPI), (b) sheet steel double door-(ii)6 way	2	each	2913.85	5827.7
229	3.11.5.B.iii	Providing & erecting sheet steel powder coated MCB distribution board - flush / surface mounted fitted with busbar, neutral link, earth bar and DIN rail, confirms 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- Three phase incoming and single phase horizontal type outgoing per phase isolation type (PPI), (b) sheet steel double door-(iii)8 way	1	each	3412.79	3412.79
230	3.11.5.B.iv	Providing & erecting sheet steel powder coated MCB distribution board - flush / surface mounted fitted with busbar, neutral link, earth bar and DIN rail, confirms 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- Three phase incoming and single phase horizontal type outgoing per phase isolation type (PPI), (b) sheet steel double door-(iv)12 way	12	each	3874.36	46492.32



S.No.	SOR No	Description	Qty	Unit	Rate with L Cess excl GST	Amount
231	3.11.6.a	supplying & erecting sheet steel powder coated cable end termination Box to be mounted on Top or Bottom of MCB Distribution Box for housing / Covering Extra wires & cables suitable for following size of MCB Db Box.-(C) Single phase 8 way	2	each	326.23	652.46
232	3.11.6.b	supplying & erecting sheet steel powder coated cable end termination Box to be mounted on Top or Bottom of MCB Distribution Box for housing / Covering Extra wires & cables suitable for following size of MCB Db Box.-(E) Three Phase 4 Way	2	each	496.92	993.84
233	3.11.6.c	supplying & erecting sheet steel powder coated cable end termination Box to be mounted on Top or Bottom of MCB Distribution Box for housing / Covering Extra wires & cables suitable for following size of MCB Db Box.-(F) Three Phase 6 Way	2	each	582.77	1165.54
234	3.11.6.d	supplying & erecting sheet steel powder coated cable end termination Box to be mounted on Top or Bottom of MCB Distribution Box for housing / Covering Extra wires & cables suitable for following size of MCB Db Box.-(G) Three phase 8 way	1	each	689.83	689.83
235	3.11.6.e	supplying & erecting sheet steel powder coated cable end termination Box to be mounted on Top or Bottom of MCB Distribution Box for housing / Covering Extra wires & cables suitable for following size of MCB Db Box.-(H) Three phase 12 way	12	each	796.89	9562.68
236	3.11.10	Providing and erecting Sheet Steel powder coated Vertical MCB distribution board (VTPN) - flush / surface mounted double door (IP54) fitted with copper insulated busbar, isolated neutral bar, earth bar and DIN rail, Conforms to IS 8623-1 & 3, IEC 61439-1 & 3, suitable for 63/100 AMP TPN MCCB + RCCB as incomer and three phase outgoing as per following .(The DBs should be used of same company of MCB to be used) -(C)8 way outgoing	2	each	8402.19	16804.38
237	3.10.1 (B)	Providing & erecting Miniature circuit breaker single pole 6A to 25A suitable to operate on 240 V A.C system and having breaking capacity 10 KA to be erected in existing box confirming to IS 8826/1996 with ISI mark.-cat III	528	each	112.11	59194.08
238	3.10.2	Providing & erecting 240 V MCB double pole switch for motor & inductive load (C curve) having breaking capacity 10 KA & confirms to IS 8828 in the existing box having following capacity-(A) 6 to 32 Amp-cat III	2	each	299.97	599.94
239	3.12.1.a	Providing & erecting approved make ELCBs / RCCBs confirming to IS : 12640 and having sensitivity of 30 mA and short circuit withsatnd capacity of 10KA and suitable for operation on single phase 240 V, 50 Hz having characteristic of quick action & tripping with all advance feature & do not incorporate any electronic component for following Max rating erected as directed-40 Amps DP-cat III	12	each	2235.13	26821.56
240	3.12.1.b	Providing & erecting approved make ELCBs / RCCBs confirming to IS : 12640 and having sensitivity of 30 mA and short circuit withsatnd capacity of 10KA and suitable for operation on single phase 240 V, 50 Hz having characteristic of quick action & tripping with all advance feature & do not incorporate any electronic component for following Max rating erected as directed-63 Amps DP-cat III	39	each	2654.28	103516.92
241	3.10.7	Providing & erecting double pole Miniature Isolator A.C.22 duly confirms to IS 13947-3 240 V 40 A in existing box.-cat III	2	each	313.10	626.2
242	3.10.9.a	Providing & erecting Four pole Miniature Isolator A.C.22 duly confirms to IS 13947-3 in existing box.-(a) for 40 amps -cat III	4	each	488.84	1955.36
243	3.10.9.b	Providing & erecting Four pole Miniature Isolator A.C.22 duly confirms to IS 13947-3 in existing box. (b) for 63 amps -cat III	13	each	595.90	7746.7



S.No.	SOR No	Description	Qty	Unit	Rate with L Cess excl GST	Amount
244	3.10.6	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-(c) 63 amps -cat III	16	each	716.09	11457.44
245	3.13.1	Providing & erected metallic vitrified danger notice board as per language suggested by Engineer Incharge for MEDIUM VOLTAGE installation to be erected as per IS-2551.	5	each	69.69	348.45
246	4.11.1.a	Providing & fixing approved make Perforated C type Cable tray, made from sheet steel. The cable tray should be single or double bended as per required and as per IS 2062 / 1079 and shall be coated with hot dip galvanizing as per IS 2629/4759 with max 17.5% perforation with coupler plate / fish plate and GI hardware like nut - bolt and washers etc. erection with necessary support included) as per specification and as per instruction of Engineer In charge.-(3) 150 x 50 x 1.6 mm thick	70	metre	424.20	29694
247	4.11.1.b	Providing & fixing approved make Perforated C type Cable tray, made from sheet steel. The cable tray should be single or double bended as per required and as per IS 2062 / 1079 and shall be coated with hot dip galvanizing as per IS 2629/4759 with max 17.5% perforation with coupler plate / fish plate and GI hardware like nut - bolt and washers etc. erection with necessary support included) as per specification and as per instruction of Engineer In charge.-(5) 300 x 50 x 2.0 mm thick	70	metre	622.16	43551.2
248	4.3.3.a	Providing and erecting XLPE (IS:7098) - BB ISI armoured cable multistrand aluminium conductor for 1.1 KV . To be laid on wall with necessary clamps or in existing trench / pipe of following size of cables.-(C) 3.5 core 50 sq. mm (25 sq. mm 0.5 core)	140	metre	281.79	39450.6
249	4.3.3.b	Providing and erecting XLPE (IS:7098) - BB ISI armoured cable multistrand aluminium conductor for 1.1 KV . To be laid on wall with necessary clamps or in existing trench / pipe of following size of cables.-(D) 3.5 core 70 sq. mm (35 sq. mm 0.5 core)	50	metre	372.69	18634.5
250	4.3.3.d	Providing and erecting XLPE (IS:7098) - BB ISI armoured cable multistrand aluminium conductor for 1.1 KV . To be laid on wall with necessary clamps or in existing trench / pipe of following size of cables.-(F) 3 1/2 core 120 Sq. mm (70 Sq. mm 1/2 core)	30	metre	534.29	16028.7
251	4.3.3.f	Providing and erecting XLPE (IS:7098) - BB ISI armoured cable multistrand aluminium conductor for 1.1 KV . To be laid on wall with necessary clamps or in existing trench / pipe of following size of cables.-(I) 3 1/2 core 240 Sq. mm (120 Sq. mm 1/2 core)	440	metre	1161.50	511060
252	4.3.5	Providing and erecting XLPE (IS:7098) - BB ISI armoured cable multistrand aluminium conductor for 1.1 KV . To be laid on wall with necessary clamps or in existing trench / pipe of following size of cables.-(B) 4 core 25 Sq. mm	140	metre	188.87	26441.8
253	4.6.3.a	Providing & fixing heavy duty flange type brass double compression type cable gland with rubber ring for PVC insulated armoured cable complete with outgoing tails insulating tape etc. for following size of cables.-(A) 3.5 / 4 core 25 Sq. mm	6	each	66.66	399.96
254	4.6.3.b	Providing & fixing heavy duty flange type brass double compression type cable gland with rubber ring for PVC insulated armoured cable complete with outgoing tails insulating tape etc. for following size of cables.-(B) 3.5 core 35/50 sq. mm	10	each	75.75	757.5
255	4.6.3.c	Providing & fixing heavy duty flange type brass double compression type cable gland with rubber ring for PVC insulated armoured cable complete with outgoing tails insulating tape etc. for following size of cables.-(C) 3.5 core 70 sq. mm	2	each	103.02	206.04



S.No.	SOR No	Description	Qty	Unit	Rate with L Cess excl GST	Amount
256	4.6.3.e	Providing & fixing heavy duty flange type brass double compression type cable gland with rubber ring for PVC insulated armoured cable complete with outgoing tails insulating tape etc. for following size of cables.-(E) 3 & 1/2 core 120 Sq. mm	2	each	140.39	280.78
257	4.6.3.f	Providing & fixing heavy duty flange type brass double compression type cable gland with rubber ring for PVC insulated armoured cable complete with outgoing tails insulating tape etc. for following size of cables.-(H) 3 & 1/2 core 240 Sq. mm	8	each	247.45	1979.6
258	4.7.1.a	Solder less crimping type Aluminium lugs confirming to IS suitable for cable of following size evenly climped with high pressure tool & connected to switchgear terminals with brass / cadmium plated nut bolts in an approved manner.-(C) 16/25 Sq.mm.	24	each	15.15	363.6
259	4.7.1.b	Solder less crimping type Aluminium lugs confirming to IS suitable for cable of following size evenly climped with high pressure tool & connected to switchgear terminals with brass / cadmium plated nut bolts in an approved manner.-(D) 35/50 sq. mm	40	each	20.20	808
260	4.7.1.c	Solder less crimping type Aluminium lugs confirming to IS suitable for cable of following size evenly climped with high pressure tool & connected to switchgear terminals with brass / cadmium plated nut bolts in an approved manner.-(E) 70 sq. mm	8	each	25.25	202
261	4.7.1.e	Solder less crimping type Aluminium lugs confirming to IS suitable for cable of following size evenly climped with high pressure tool & connected to switchgear terminals with brass / cadmium plated nut bolts in an approved manner.-(G) 120 Sq.mm.	8	each	45.45	363.6
262	4.7.1.g	Solder less crimping type Aluminium lugs confirming to IS suitable for cable of following size evenly climped with high pressure tool & connected to switchgear terminals with brass / cadmium plated nut bolts in an approved manner.-(J) 240 Sq.mm.	8	each	85.85	686.8
263	MR	Installation, testing and commissioning of prewired, LED fittings of all types , complete with all accessories and tube etc. directly on ceiling/wall, including connections with 1.5 sq.mm. PVC insulated, copper conductor, single core cable etc. as required.	167	each	185.84	31035.28
264	2.15.3.C.a	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 confirming to IS: 513/CRCA/aluminium pressure die cast powder coated and high U.V. & corrosion resistance with diffuser housed in aluminium casted body with company mark/name 120 to 300 V, power factor more than 0.9, THD< 10%, CCT 3000 K to 65 K. Luminaire efficacy > 85 lumens/watt. LED efficiency 110 lumens/watt, LED driver efficiency > 85%. CREE/OSRAM/PHILIPS Lumileds/ NICHIA/ SEOUL/ Bridgelux make LED used for luminaire (fitting 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) Square/ Circular shaped Surface/Recessed Mount Downlight with provision for spring loaded mounting clips complete.IP20-(a) 5-9 watts, surge-2 KV-Cat - III	22	each	220.18	4843.96



S.No.	SOR No	Description	Qty	Unit	Rate with L Cess excl GST	Amount
265	2.15.3.C.b	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/aluminium pressure die cast powder coated and high U.V. & corrosion resistance with diffuser housed in aluminium casted body with company mark/name 120 to 300 V, power factor more than 0.9, THD< 10%, CCT 3000 K to 65 K. Luminaire efficacy > 85 lumens/watt. LED efficiency 110 lumens/watt, LED driver efficiency > 85%. CREE/OSRAM/PHILIPS Lumileds/ NICHIA/ SEOUL/ Bridgelux make LED used for luminaire (fitting 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) Square/ Circular shaped Surface/Recessed Mount Downlight with provision for spring loaded mounting clips complete.IP20-(b) 11-15 watts, surge-2 KV-Cat - III	115	each	427.23	49131.45
266	2.15.3 (D)	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/aluminium pressure die cast powder coated and high U.V. & corrosion resistance with diffuser housed in aluminium casted body with company mark/name 120 to 300 V, power factor more than 0.9, THD< 10%, CCT 3000 K to 65 K. Luminaire efficacy > 85 lumens/watt. LED efficiency 110 lumens/watt, LED driver efficiency > 85%. CREE/OSRAM/PHILIPS Lumileds/ NICHIA/ SEOUL/ Bridgelux make LED used for luminaire (fitting 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)(B) LED Panel light with provision for plane front frame with translucent cover fixed to housing complete IP 20.(vi) 36 watts, 24" x 24", Surge- 2KV-Cat - III	29	each	1794.77	52048.33
267	2.15.1 (a)	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/ aluminium die cast powder coated and high U.V. & corrosion resistance with diffuser with company mark/name 160V to 270V, Power Factor more than 0.95, THD < 15%, CCT 3000 K to 6500K, Luminaire efficacy> 85 lumens/watt ,LED , LED driver efficiency > 85 % ( fitting 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) Tube light with integral driver. (i) 5-10 Watts, Surge-2 KV, IP-20, conventional 1 to 2 feet-Cat - III	6	each	165.64	993.84

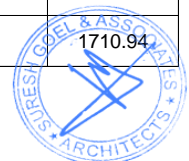


S.No.	SOR No	Description	Qty	Unit	Rate with L Cess excl GST	Amount
268	2.15.1.b	Supplying and erecting LED indoor fittings with LEDs of wattage 0.2 Watt to 0.5 Watt assembled on single MCPCB, with housing used as a heat sink shall be made of thick sheet Steel conforming to IS: 513/CRCA/ aluminium die cast powder coated and high U.V. & corrosion resistance with diffuser with company mark/name 160V to 270V, Power Factor more than 0.95, THD < 15%, CCT 3000 K to 6500K, Luminaire efficacy > 85 lumens/watt ,LED , LED driver efficiency > 85 % ( fitting 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) Tube light with integral driver. (iii) 18-20 Watts, Surge - 2KV,IP-20, conventional 4 feet-Cat - III	15	each	295.93	4438.95
269	2.15.1.c	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/ aluminium die cast powder coated and high U.V. & corrosion resistance with diffuser with company mark/name 160V to 270V, Power Factor more than 0.95, THD < 15%, CCT 3000 K to 6500K, Luminaire efficacy > 85 lumens/watt ,LED , LED driver efficiency > 85 % ( fitting 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) Tube light with integral driver. (v) 36-40 Watts, Surge-2 KV, IP-20, conventional 4 feet-Cat - III	182	each	535.30	97424.6
270	2.17.3	Providing and erecting PVC body surface or pendant mounting LED Bulk type 9 watt Lighting fitting with electronic driver and lumen output from luminaire 720 lm, input voltage range 90-300 VAC, 50 Hz cool white (3000 to 6500 K), inbuilt driver, 20 degree C to + 60 deg C working temperature, AL frame with Beam Angle 120 deg.	16	each	787.80	12604.8
271	2-15-2	Supplying and erecting led lamps with following wattage capacity of 220 to 240 voltage, minimum 15000 burning hours life, 500 V in built-surge protection,Polycarbonate diffuser, mounting suitable for E14 / E27 / B22 lamp holders, pf >= 0.5. Colour (Red /Green) as per requirement (A) LED Lamps integral type, with PC diffuser suitable LAMP holder, (i) 2 to 3 watts-Cat-III.	6	each	69.69	418.14
272	MR	Supplying of Recess Clean Room type, IP65, Bottom opening LED luminaire dimension: (L x W) (590- 600)x(590-600) mm fitting made of CRCA powder coated finish /PDC Alloy Aluminium with Fully Covered by PMMA Acrylic Lumio Diffuser, LED Used shall be SMD type , UGR <= 19 , Wattage <= 36W, System Lumen >= 3600,Fixture efficacy at System level (Not Chip Level) >=100-110lumens/watt, Life of fixture 50000hrs@L70% Lumen maintenance, CCT Range 5700-6500, CRI >80, PF >0.95, THD <9% an operating Voltage Range of 140 - 270 V.Minimum Internal Surge Protection 2 KV The fixture should comply with the parameters as per IS10322 and IEC60598	12	each	6451.88	77422.56



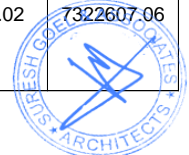


S.No.	SOR No	Description	Qty	Unit	Rate with L Cess excl GST	Amount
273	MR	Supply of <b>5-6 W LED Exit &amp; matter at per site requirement Light</b> with inbuilt battery backup of 2 hours, including drivers, fixing accessories complete as required. The fixture should have sufficient intensity and all fixing arrangement complete as required at site. Bajaj : BESL 03 LED DSD WBB Red/Green or equivalent of Decon and Insatpower	26	each	3754.17	97608.42
274	5-1-1.	Providing and erecting Approved make Ceiling fan with double ball bearing ISI mark with condenser A.C. 230V.50 c/s.1200 mm. sweep complete, canopy erected on existing hook or clamp with earthing. [Make shall be approved by Engineer in charge]	26	each	1596.81	41517.06
275	5.3.4.a	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-(A) 305 mm dia. 900 RPM, Cat II	13	each	2054.34	26706.42
276	5.3.4.b	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-(D) 450 mm dia. 900 RPM, Cat II	2	each	3937.99	7875.98
277	5.3.6	Providing suitable M.S. louver shutter of the Exhaust Fan.	15	each	368.65	5529.75
278	3.14.10	Supplying & erecting in earthpit of minimum bore dia. 225mm size approved make Safe Earthing Electrode consisting Pipe-in-Pipe Technology as per IS 3043-1987 made of corrosion free hot dipped G.I.Pipes having Outer pipe dia of 80 mm having 80-200 Micron galvanising, Inner pipe dia of 40 mm having 200-250 Micron galvanising, connection terminal dia of 14 mm with constant ohmic value surrounded by highly conductive compound with high charge dissipation suitable for following type of applications with chamber and heavy duty cover (A)(approved make OEM has to submit test certificate including value of earth resistance of installation duly stamped and signed by agency and officer Incharge has to ensure the value of earthing resistane mentioned in test Certificate) & having back filling compound of (B) Inner chemical (CCM Compound)- Resistivity:- 0.2 ohm / meter testing as per IEC 62561-2017, Voltage drop:- < 1 volt at no load & dry form, Sulphar content:- <2%(C) Back fill Compound :- Earthing compound should be capable to retain moisture for long time Necessary test report must be submitted by Agency.-[A] For electrical installation up to 440 , V Length of Pipe - 1 Mtr, Back filling compound - 1 Nos. of Bag of 15 Kgs.	4	each	5842.85	23371.4
279	MR	Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	12	each	12478.91	149746.9286
280	3.14.2	Providing and erecting required size HOT deep galvanized iron strip for earthing of H.T, OCB/ACB/Transformer LT panel board, motors etc. using proper clamp.	304	Kg	77.77	23642.08
281	3.14.3	Providing and erecting required size Copper strip for earthing of H.T, OCB/ACB/Transformer LT panel board, motors etc. using copper clamp.	302	Kg	794.87	240050.74
282	3.14.5	Providing and erecting Hot deep Galvanized Iron strip wire 8 to 16 SWG.	22	Kg	77.77	1710.94





S.No.	SOR No	Description	Qty	Unit	Rate with L Cess excl GST	Amount
283	10.5.1	SITC of Vertical Air Terminal Solid aluminium with base-10 mm dia and 1000 mm long. Air Termination base tested for conditioning, ageing test & Lightning impulse current withstand test: 100 KA of 10/350 Us waveform in an accredited third party laboratory as per 6.3 & 6.4 of IEC 62561-1 2017 protocol with MAST 34 mm dia 3000 mm long-Cold Galvanized.	6	each	9416.23	56497.38
284	10.5.2	SITC of 8 mm dia solid Aluminium Conductor for roof top mesh grid and tested as per IEC 62561- 2 conducted in the Govt. accredited thirty party laboratory to meet the requirement of IS/IEC 62305 with Required Accessories - Aluminium Holding clamp at every 1 mtr distance, Aluminium/SS cross splicer at every crossing of Alu. conductor, Expansion piece with connectors at every 20 mtr distance, Aluminium straight Splicer to connect conductors. All Accessories should be tested as per IEC 62561-1 2018 Cl. 6.3 for conditioning & Ageing Test & 6.4 for Lightning impulse current withstand test: 100 kA of 10/350µs waveform(Ageing & Electrical test ) conducted in a sequence manner & tested in the Govt. accredited Third party laboratory to meet the requirements of IS/IEC 6230	315	metre	299.97	94490.55
285	10.5.3	SITC of 10 mm MS Round solid conductor having smooth surface should be tested and use exclusively for lightening protection (vertical Riser / down conductor which shall be concealed in column) to meet the requirement of IS IEC 62305 with accessories. Earthing stud of dimensions SS-75 mm OD plate with 10 mm dia tail connector used in structural steel ring earthing system to meet the requirement of IS / IEC 62305. (For interconnecting the column and Terrace AL Conductor / strip/ flat SS cross connector to connect Earth fixing oint to vertical raiser / down conductor. SS straight splicer at every 4 mtr to connect MS conductor in column. Bonding / Rehar clamp at every 3 mtr suitable for innerconnecting round conductor with reinforcement inside the concrete for structural earthing system, SS connector - To connect external conductor 8-10 mm with earth fixing point. All accessories shall be test as per IEC 62561 I 2018 Cl.6.3 for conditioning & ageing test & 6.4 for lightening impulse current withstand test:100 KA of 10/350 Us waveform (Ageing & Electrical test) conducted in a sequence manner & tested in the Govt. accerdited Third party laboratory to meet the requirements of IS/IEC6230.	36	metre	728.21	26215.56
286	10.5.4	SITC of Galvanized steel flat 25X6 mm thickness from earth electrode directly in ground as required. Zinc coating 500 g/m square (approx 70 micron coating) tested used exclusively for lightening protection earthing system and ring equipment bonding.	220	metre	154.53	33996.6
287	10.5.5	SITC of 14.2 mm dia 3 mtr long earth electrode of high tensile steel electrode with 250 micron copper bonding & 1 bag of carbon fill based environment friendly backfill tested as per IEC 62561-7 in NABL accredited Laboratory and suitable stainless steel double sided clamp. Eco friendly rust proof heavy duty weather proof polythylene earth pit chamber with following dimensions: 254 mm dia (top) 330 mm dia (bottom) & 260 mm (height).	5	per set	5992.33	29961.65
288	13-1-BM	SITC of 26 Passenger / 2000 KG Goods Lift, Ground plus 3 upper floors with Rated speed of 1.0 m/sec. with micro price/PLC control and ACVVVF. drive. Location : Animal Facility Block (B+G+2) -(C) With General PLUS ADDITIONAL SPECIAL FEATURES attached herewith. Prem. Cat.	3	each	2440869.02	7322607.06



S.No.	SOR No	Description	Qty	Unit	Rate with L Cess excl GST	Amount
		Total				11116777.39

