



BANK NOTE PAPER MILL INDIA PRIVATE LIMITED



Registered & Corporate office: Administrative Office Building Paper Mill Compound, Entry Gate 1, Note Mudran Nagar, Mysore- 570003

e-Tender No. BNP/TEM/635/staff quarters/2018-19 Dated 05.11.2018

Price schedule (Financial bid)

Name of Work:Tender for Construction of CISF Quarters multi-storeyed building, BNP/TEM premises, Mysuru.

Name of the Firm							
Sl.No	BOQ Item no.	Description	Unit	QTY	Rate per unit in Rs	Total amount in Rs.	Total amount in words
		CIVIL WORKS					
		EXCAVATION					
		SITE CLEARANCE					
1	1.01	Clearing jungle and shrubs including uprooting of rank vegetation, grass, bush, wood,trees and saplings of girth upto 30 cm measured at a height of 3m above ground level and removal of rubbish upto a distance of 200M outside the periphery of the area cleared and within the OWNER'S premises and as per the direction of engineer	Sq.m	1156.00			
2	1.02	Removal of trees from the site with roots of girth size 300-600mm dia. The rate shall also include the removal of rubbish and Transportation by mechanical transport, surplus excavated earth / rock /debris including the hire charge for lorry, charges for loading and unloading, clearing and leveling at both ends for a lead out of the campus as directed etc complete as per the direction of engineer incharge .	nos	30.00			
3	1.03	Removal of dumped existing concrete by mechanical means/ chiselling/cutting from the site @ all depth , the rate includes transportation by mechanical transport the debris including the hire charge for lorry, charges for loading and unloading, clearing and leveling at both ends for a lead up to outside the campus as directed etc complete as per the direction of engineer incharge	Cum	350.00			
4	1.04	Demolishing brickwork / in cement mortar to foundation, floor, walls etc. at all heights / depths including disposing of debris up to a distance of 4 KM within the premises and as directed by the Engineer-in-Charge.	Cum	50.00			
5	1.05	Dismantling of concrete structures with mechanical equipment's such as concrete cutter, breaker etc. including necessary supporting arrangement and disposal of debris up to a distance of 4 KM within the premises and as directed by Engineer-in-charge	Cum	200.00			
		SITE GRADING					
6	1.06	SITE GRADING:-Earthwork in excavation for site grading(Lowering and levelling other tha foundations) by mechanical means upto 1.50m at site as per site grading drawing in all classes of soil including slope cutting as per standard specification and carting selected excavated stuff for filling in low lying areas upto a lead of 1500m. as directed by engineer. (No manual excavation is permitted. Rate shall include cost of equipment involved) etc complete as per the direction of engineer incharge	Cum	500.00			
	1.07	Earth work Excavation in all types of soil including Ordinary soil,Hard Soil, disintegrated/ weathered/ soft rock (Poclaimable) ,Hard Rock for Foundations,trenches, Footings of columns, Retaining walls, Core walls, catch pits, Lift pits, trenches for drains, and sump etc., by mechanical means including manual excavation for leveling, dressing the edges, with all leads and lifts . Dewatering of both ground and surface water, removal of slurry generated while excavation and keeping the area free of water with necessary shoring, strutting, required for keeping earth in position etc. Rate to include disposing the excess earth and spreading in layers to the required levels within the site wherever specified and carting away out side the site to the designated areas upto lead of 1500m as directed by the Engineer . Note:PCC area shall be considered for measurement (Working space & provision of slopes if required for execution shall not be paid separately). etc complete as per the direction of engineer incharge					
7	a	Specification and scope of work same as item no (1.07) but for Hard Soil depth 0.00M to 1.50M	Cum	300.00			
8	b	Specification and scope of work same as item no (1.07)but for soft and decomposed rock Depth upto 1.50Mto 3.00M (No manual excavation is permitted. Rate shall include cost of equipment involved)	Cum	350.00			
9	c	Specification and scope of work same as item no (1.07)but for Hard rock Depth upto 3.00Mto 4.50M (No manual excavation is permitted. Rate shall include cost of equipment involved)	Cum	400.00			



10	1.08	Providing,Supply and filling in foundations and the area wherever specified with selected excavated good quality earth filling materials in plinths, area development etc. wherever specified in layers of not exceeding 150 mm thick including breaking clods,storage,transportation ,double handling, watering, compacting each layer with vibratory compactor and at unaccessible places with wooden/steel rammers to achieve 90 to 95% proctor density at optimum moisture content, all leads and lifts, bailing/ pumping out of water to keep site dry while backfilling; cost shall include conveyance of all materials, labour, machinery etc. complete as directed. The rate to includes loading, unloading, hire and fuel charges for tools and plants and other incidental charges with lead upto 100M and lift upto 3.0m etc., complete. (for Foundation & Sides of Retaining walls) (Only compacted volume shall be measured for payment).	Cum	730.00		
11	1.09	Backfilling around foundations , trenches, sumps, pits, retaining walls, substructures, including watering and thorough compaction of backfill in layers not exceeding 230 mm thickness, at all depths with murum brought from borrow area outside the Owner's premises including its Providing,Supply and transport (available within 5000 m from the work area) etc. complete. (Note: Borrow areas selected by CONTRACTOR shall be got approved from Engineer before starting work.) (Only compacted volume shall be measured for payment).	Cum	400.00		
12	1.10	Removal and carriage of surplus excavated earth, debris, etc. from the site of work to other areas anywhere within the plant battery limits beyond the initial lead of 1500 meter and spreading, including loading and unloading as per the direction of Engineer-in-Charge	Cum	2890.00		
13	1.11	Transportation by mechanical transport , surplus excavated earth / rock /debris including the hire charge for lorry, charges for loading and unloading, clearing and leveling at both ends for a lead up to 3.0 KM within the campus as directed etc complete as per the direction of engineer incharge	Cum	1300.00		
14	1.12	Transportation by mechanical transport , surplus excavated earth / rock /debris including the hire charge for lorry, charges for loading and unloading, clearing and leveling at both ends disposed to out of the premises / the campus as directed etc complete as per the direction of engineer incharge	Cum	1500.00		
15	1.13	Diluting and injecting chemical emulsion Chlorpyriphos Emulsifiable concentrate 20% with 15 concentration for PRE-CONSTRUCTIONAL ANTI-Termite treatment and creating a continuous chemical barrier under and around column pits, wall trenches, basement excavation, top surface of plinth filling, junction of wall and floor, along the external surface of plinth filling, expansion joints, over top surface of consolidated earth on which apron is to be laid, surroundings of pipes and conduits etc.complete as per specifications (plinth area of building at ground floor only shall be measured for payment)	sqm	890.00		
	2	CONCRETE				
16	2.01	Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation at all level including cost of all materials, labour, HOM of machinery, curing complete as per specifications. -upto -4.50m	Cum	155.00		
17	2.02	Providing and laying plain cement concrete mix 1:4:8 at all levels with 20 mm down graded coarse aggregate and sand in blinding layer / fill under R.C.C. & masonry foundations, bottom of pits, sumps, channels, tie beams, grade slabs, floorings, footings, tanks, storm water drain, pipe encasing including ramming , leveling, curing etc complete as per the direction of engineer incharge	Cum	20.00		
18	2.03	Providing and laying plain cement concrete mix 1:2:4 at all levels with 20 mm down graded coarse aggregate and sand in blinding layer / fill under R.C.C. & masonry foundations, bottom of pits, sumps, channels, tie beams, grade slabs, floorings, footings, tanks, storm water drain, pipe encasing including ramming , leveling, curing etc complete as per the direction of engineer incharge	Cum	3.00		
19	2.04	Providing and laying 10cm thk R.C.C 1:2:4 below VDF flooring using 20 mm. & down size stone aggregates including mixing, transporting, laying, spreading, compaction, laying in bays [of suitable size as directed by the Engineer-in-charge] to proper line on prepared sub grade with reinforcement as directed. [area of each bays shall not exceed more than 2.00 sqm] The rates quoted shall be inclusive of lateral formwork. The floor shall be cast in alternate strips and the concrete shall be vibrated and finished smooth by power trowelling and finished as specified and as directed. Required level or slope shall be maintained on the top surface. Care shall be taken to prevent local depressions. Only steel sections such as channels, angles will be allowed to be used as form work. The top level of form work shall be flush with required finished floor level. Under any circumstances form work shall not be allowed to project above FFL. The rates inclusive of wire mesh,preparation of base & curing properly, cleaning the work area & stacking the debris / waste materials / unwanted materials / things etc., upto a lead of 50 meters outside work premises etc. complete all as per specification and as directed by the engineer-in-charge at all locations. (Reinforcement steel will be paid separately under respective items)	Cum	90.00		



20	2.05	Finishing the top concrete surface of flooring laid under above item by providing vacuum dewatering system "Trimix" 40 mm. thick including finishing the top using power trowels to a smooth and fair surface. Cutting of grooves on concrete /surface within 4 days after completion of laying of concrete as above using a power driven cutting machine complete and as directed. The width & depth of the groove shall be 5mm & 30 mm respectively	Sqm	765.00		
	2.06	READY MIX CONCRETE / CONTROLLED CONCRETE				
		NOTE: CONCRETE SHALL BE PROCURED FROM SITE BATCHING PLANT HOWEVER, IN CASE OF READY MIX CONCRETE PROCURED FROM RMC PLANT THE PROBABLE CONCRETE CAN BE FETCHED FROM (Birla/ L&T/ RMC).				
		Providing, batching, mixing, transporting through transit mixers, pumping and laying Reinforced Cement Concrete of specified grade at all levels and heights specified below using ordinary Portland cement of grade 53 from approved manufacturer, river sand, 20mm and down size coarse aggregates, necessary admixtures approved by Consultants (Conplast SP 430SRV from Fosroc or equivalent), including all leads and lifts, pumping using line pump or boom placer, vibrating/ compaction, scaffolding wherever necessary, curing as directed, excluding cost of shuttering and centering.				
		(Design mix shall be as approved by the Structural Consultant / Employers representative. Micro silica to be used for the Concrete of higher grade than M45 Grade)				
21	2.07	M35 Grade Concrete for Columns				
22	a	Stilt Floor 0 - 3.10 M	Cum	70.00		
23	b	Ground Floor 3.1-6.10 M	Cum	35.00		
24	c	First Floor 6.10 -9.10M	Cum	35.00		
	2.08	M30 Grade Concrete for Columns				
25	a	Second floor 9.10 -12.10	Cum	36.00		
26	b	Third Floor 12.10 -15.10	Cum	36.00		
	2.09	M25 Grade Concrete for Columns				
27	a	Fourth Floor 15.10 -18.10	Cum	36.00		
28	b	Fifth Floor 18.10 -21.10	Cum	36.00		
29	c	Sixth Floor 21.30-24.10	Cum	36.00		
30	d	Seventh Floor 24.10-27.10 M	Cum	36.00		
31	e	Above Terrace 27.10 - 31.55	Cum	6.00		
	2.10	M30 Grade Concrete for Walls				
32	a	Stilt Floor 0 - 3.10 M	Cum	15.00		
33	b	Ground Floor 3.1-6.10 M	Cum	10.00		
34	c	First Floor 6.10 -9.10M	Cum	10.00		
35	d	Second floor 9.10 -12.10	Cum	10.00		
	2.11	M25 Grade Concrete for Walls				
36	a	Third Floor 12.10 -15.10	Cum	10.00		
37	b	Fourth Floor 15.10 -18.10	Cum	10.00		
38	c	Fifth Floor 18.10 -21.10	Cum	10.00		
39	d	Sixth Floor 21.30-24.10	Cum	10.00		
40	e	Seventh Floor 24.10-27.10 M	Cum	10.00		



41	f	Above Terrace 27.10 - 31.55	Cum	10.00		
42	g	RCC Parapet wall	Cum	22.00		
	2.12	M25 Grade Concrete for Slabs				
43	a	Ground floor UPTO 3.10M	Cum	95.00		
44	b	First Floor UPTO 6.10M	Cum	95.00		
45	c	Second floor UPTO 9.10M	Cum	95.00		
46	d	Third Floor UPTO 12.10M	Cum	95.00		
47	e	Fourth Floor UPTO 15.10M	Cum	95.00		
48	f	Fifth Floor UPTO 18.10M	Cum	95.00		
49	g	Sixth Floor UPTO 21.10 M	Cum	95.00		
50	h	Seventh Floor UPTO 24.10 M	Cum	95.00		
51	i	Terrace Floor UPTO 27.10M	Cum	95.00		
52	j	Above Terrace Floor UP TO 31.55M	Cum	6.00		
53	k	RCC Platform @ 33M	Cum	4.00		
	2.13	M25 Grade Concrete for Beams				
54	a	Plinth beam @ 0.45M	Cum	60.00		
55	b	Ground floor UPTO 3.10M	Cum	78.00		
56	c	First Floor UPTO 6.10M	Cum	78.00		
57	d	Second floor UPTO 9.10M	Cum	78.00		
58	e	Third Floor UPTO 12.10M	Cum	78.00		
59	f	Fourth Floor UPTO 15.10M	Cum	78.00		
60	g	Fifth Floor UPTO 18.10M	Cum	78.00		
61	h	Sixth Floor UPTO 21.10 M	Cum	78.00		
62	i	Seventh Floor UPTO 24.10 M	Cum	78.00		
63	j	Terrace Floor UPTO 27.10M	Cum	78.00		
64	k	Above Terrace Floor UP TO 31.55M	Cum	6.00		
	2.14	M25 Grade Concrete for				
65	a	Raft / Isolated /Combined Footing at(UPTO - 4.50- M level)	Cum	375.00		
66	b	DG Foundation	Cum	15.00		
	2.15	M25 Grade Concrete for STAIRCASE(Staircase at all floors & heights)				
67	a	Stilt Floor 0 - 3.10 M	Cum	12.00		



68	b	Ground Floor 3.1-6.10 M	Cum	12.00		
69	c	First Floor 6.10 -9.10M	Cum	12.00		
70	d	Second floor 9.10 -12.10	Cum	12.00		
71	e	Third Floor 12.10 -15.10	Cum	12.00		
72	f	Fourth Floor 15.10 -18.10	Cum	12.00		
73	g	Fifth Floor 18.10 -21.10	Cum	12.00		
74	h	Sixth Floor 21.30-24.10	Cum	12.00		
75	i	Seventh Floor 24.10-27.10 M	Cum	12.00		
76	j	Above Terrace 27.10 - 31.55	Cum	5.00		
	2.16	M25 Grade Concrete for LINTELS				
77	a	Stilt floor @ + 2.55M	Cum	2.50		
78	b	Ground floor @+ 5.55M	Cum	12.50		
79	c	First Floor @ 8.55M	Cum	12.50		
80	d	Second floor @ 11.55M	Cum	12.50		
81	e	Third Floor @ 14.55M	Cum	12.50		
82	f	Fourth Floor @ 17.55M	Cum	12.50		
83	g	Fifth Floor @ 20.55M	Cum	12.50		
84	h	Sixth Floor @ 24.55M	Cum	12.50		
85	i	Seventh Floor@ 27.55 M	Cum	12.50		
86	j	Terrace Floor @ 30.55M	Cum	12.50		
	2.17	M20 Grade Concrete for Cills at all floors				
87	a	Ground floor @+ 4.00M	Cum	3.50		
88	b	First Floor @ 7.00M	Cum	3.50		
89	c	Second floor @ 10.0M	Cum	3.50		
90	d	Third Floor @ 13.00M	Cum	3.50		
91	e	Fourth Floor @ 13.60M	Cum	3.50		
92	f	Fifth Floor @ 16.00M	Cum	3.50		
93	g	Sixth Floor @ 19.00M	Cum	3.50		
94	h	Seventh Floor@ 22.00 M	Cum	3.50		
95	i	Terrace Floor @ 25.00M	Cum	1.00		
	2.18	M25 Grade Concrete for Chejjas				



96	a	Ground floor @+ 5.55M	Cum	8.00			
97	b	First Floor @ 8.55M	Cum	8.00			
98	c	Second floor @ 11.55M	Cum	8.00			
99	d	Third Floor @ 14.55M	Cum	8.00			
100	e	Fourth Floor @ 17.55M	Cum	8.00			
101	f	Fifth Floor @ 20.55M	Cum	8.00			
102	g	Sixth Floor @ 24.55M	Cum	8.00			
103	h	Seventh Floor@ 27.55 M	Cum	8.00			
104	i	Terrace Floor @ 30.55M	Cum	8.00			
	2.19	M25 Grade Concrete for Loft					
105	a	Ground floor @+ 5.55M	Cum	5.00			
106	b	First Floor @ 8.55M	Cum	5.00			
107	c	Second floor @ 11.55M	Cum	5.00			
108	d	Third Floor @ 14.55M	Cum	5.00			
109	e	Fourth Floor @ 17.55M	Cum	5.00			
110	f	Fifth Floor @ 20.55M	Cum	5.00			
111	g	Sixth Floor @ 24.55M	Cum	5.00			
112	h	Seventh Floor@ 27.55 M	Cum	5.00			
	2.20	Lift well M25					
113	a	Bottom slab @ -3.30m	Cum	5.00			
114	b	Walls - 3.30 to 0.00	Cum	4.00			
115	c	Beams @ +0.45M	Cum	6.00			
	2.21	M25 Grade for Sump Tank					
116	a	Bottom slab @- 3.50m	Cum	8.00			
117	b	Top Slab @ + 0.00	Cum	8.00			
118	c	Walls - 3.50 to 0.00	Cum	34.00			
	2.22	OHT AT + 33.10M LVL					
119	a	Bottom slab@ +33.10Mlvl	Cum	8.00			
120	b	Top Slab @ + 35.0M	Cum	8.00			
121	c	Walls +33.10 to +35.0M	Cum	34.00			
	3	FORM WORK					



		Providing, fabricating and erecting form work at all levels and places and profiles wherever needed/specified as per drawing including striking with 12mm Plastic coated, marine resistant waterproof ply/Smooth finished MS plates with adjustable steel props of acceptable Staging system and with sufficient bracing as approved by consultant. Cost to include designing of proper form work and staging system to suit the requirements. Submission of design calculations and shop drawings for approval, sealing the joints with heavy duty brown self adhesive tape, aligning to line and levels including M.S. Ties, PVC Spacer, Providing openings/ cutouts/ pockets, applying deshuttering chemical, Deshuttering as approved by the consultant etc., complete at all levels, double/triple heights and profiles for Note : Only plan area shall be considered. No extra shall be paid for Side shuttering of Drop panel/column capitals. etc complete as per the direction of engineer incharge.1) plywood shuttering shall be considered for all vertical elements, beam soffit,corewalls,stairs,ramps,tanks,RCCpedestals Etc., 2) M.S. plates shall be considered for foundation, slabs only.				
	3.01	Footings				
122	a	Footings / Raft slab at (- 4.50M)	Sqm	530.00		
123	b	DG Foundation Upto -1.0m	Sqm	25.00		
	3.02	Columns				
124	a	Stilt Floor 0 - 3.10 M	Sqm	355.00		
125	b	Ground Floor 3.1-6.10 M	Sqm	355.00		
126	c	First Floor 6.10 -9.10M	Sqm	355.00		
127	d	Second floor 9.10 -12.10	Sqm	355.00		
128	e	Third Floor 12.10 -15.10	Sqm	355.00		
129	f	Fourth Floor 15.10 -18.10	Sqm	355.00		
130	g	Fifth Floor 18.10 -21.10	Sqm	355.00		
131	h	Sixth Floor 21.30-24.10	Sqm	355.00		
132	i	Seventh Floor 24.10-27.10 M	Sqm	355.00		
134	k	Above Terrace 27.10 - 31.55	Sqm	50.00		
	3.03	Walls				
135	a	Stilt Floor 0 - 3.10 M	Sqm	85.00		
136	b	Ground Floor 3.1-6.10 M	Sqm	85.00		
137	c	First Floor 6.10 -9.10M	Sqm	85.00		
138	d	Second floor 9.10 -12.10	Sqm	85.00		
139	e	Third Floor 12.10 -15.10	Sqm	85.00		
140	f	Fourth Floor 15.10 -18.10	Sqm	85.00		
141	g	Fifth Floor 18.10 -21.10	Sqm	85.00		
142	h	Sixth Floor 21.30-24.10	Sqm	85.00		
143	i	Seventh Floor 24.10-27.10 M	Sqm	85.00		
145	k	Above Terrace 27.10 - 31.55	sqm	50.00		
	3.04	Slab				



146	a	Ground floor UPTO 3.10M	Sqm	710.00			
147	b	First Floor UPTO 6.10M	Sqm	670.00			
148	c	Second floor UPTO 9.10M	Sqm	670.00			
149	d	Third Floor UPTO 12.10M	Sqm	670.00			
150	e	Fourth Floor UPTO 15.10M	Sqm	670.00			
151	f	Fifth Floor UPTO 18.10M	Sqm	670.00			
152	g	Sixth Floor UPTO 21.10 M	Sqm	670.00			
153	h	Seventh Floor UPTO 24.10 M	Sqm	670.00			
154	i	Terrace Floor UPTO 27.10M	Sqm	670.00			
155	j	Above Terrace Floor UP TO 31.55M	Sqm	60.00			
156	k	RCC Platform for @33M	Sqm	20.00			
157	l	Sloped slab 31.50-32.50m	Sqm	11.00			
	3.05	Beams					
158	a	Plinth beam @ 0.45M	Sqm	700.00			
159	b	Ground floor UPTO 3.10M	Sqm	900.00			
160	c	First Floor UPTO 6.10M	Sqm	900.00			
161	d	Second floor UPTO 9.10M	Sqm	900.00			
162	e	Third Floor UPTO 12.10M	Sqm	900.00			
163	f	Fourth Floor UPTO 15.10M	Sqm	900.00			
164	g	Fifth Floor UPTO 18.10M	Sqm	900.00			
165	h	Sixth Floor UPTO 21.10 M	Sqm	900.00			
166	i	Seventh Floor UPTO 24.10 M	Sqm	900.00			
167	j	Terrace Floor UPTO 27.10M	Sqm	900.00			
168	k	Above Terrace Floor UP TO 31.55M	Sqm	400.00			
	3.06	Staircase at all floors & heights.					
169	a	Stilt Floor 0 - 3.10 M	Sqm	50.00			
170	b	Ground Floor 3.1-6.10 M	Sqm	50.00			
171	c	First Floor 6.10 -9.10M	Sqm	50.00			
172	d	Second floor 9.10 -12.10	Sqm	50.00			
173	e	Third Floor 12.10 -15.10	Sqm	50.00			
174	f	Fourth Floor 15.10 -18.10	Sqm	50.00			



175	g	Fifth Floor 18.10 -21.10	Sqm	50.00		
176	h	Sixth Floor 21.30-24.10	Sqm	50.00		
177	i	Seventh Floor 24.10-27.10 M	Sqm	50.00		
	3.07	Lintels at all floors				
178	a	Stilt floor @ + 2.55M	Sqm	60.00		
179	b	Ground floor @+ 5.55M	Sqm	180.00		
180	c	First Floor @ 8.55M	Sqm	180.00		
181	d	Second floor @ 11.55M	Sqm	180.00		
182	e	Third Floor @ 14.55M	Sqm	180.00		
183	f	Fourth Floor @ 17.55M	Sqm	180.00		
184	g	Fifth Floor @ 20.55M	Sqm	180.00		
185	h	Sixth Floor @ 24.55M	Sqm	180.00		
186	i	Seventh Floor@ 27.55 M	Sqm	180.00		
187	j	Terrace Floor @ 30.55M	Sqm	30.00		
	3.08	Cills				
188	a	Ground floor @+ 4.00M	Sqm	30.00		
189	b	First Floor @ 7.00M	Sqm	30.00		
190	c	Second floor @ 10.0M	Sqm	30.00		
191	d	Third Floor @ 13.00M	Sqm	30.00		
192	e	Fourth Floor @ 13.60M	Sqm	30.00		
193	f	Fifth Floor @ 16.00M	Sqm	30.00		
194	g	Sixth Floor @ 19.00M	Sqm	30.00		
195	h	Seventh Floor@ 22.00 M	Sqm	30.00		
196	i	Terrace Floor @ 25.00M	Sqm	30.00		
197	j	Above Terrace Floor UPTO 31.50M	Sqm	10.00		
	3.09	Chejjas				
198	a	Ground floor @+ 5.55M	Sqm	48.00		
199	b	First Floor @ 8.55M	Sqm	48.00		
200	c	Second floor @ 11.55M	Sqm	48.00		
201	d	Third Floor @ 14.55M	Sqm	48.00		
202	e	Fourth Floor @ 17.55M	Sqm	48.00		
203	f	Fifth Floor @ 20.55M	Sqm	48.00		



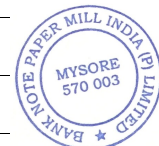
204	g	Sixth Floor @ 24.55M	Sqm	48.00		
205	h	Seventh Floor@ 27.55 M	Sqm	48.00		
206	i	Terrace Floor @ 30.55M	Sqm	48.00		
207	j	Terrace Floor UPTO 31.50M	Sqm	3.00		
	3.10	Lofts				
208	a	Ground floor @+ 5.55M	Sqm	45.00		
209	b	First Floor @ 8.55M	Sqm	45.00		
210	c	Second floor @ 11.55M	Sqm	45.00		
211	d	Third Floor @ 14.55M	Sqm	45.00		
212	e	Fourth Floor @ 17.55M	Sqm	45.00		
213	f	Fifth Floor @ 20.55M	Sqm	45.00		
214	g	Sixth Floor @ 24.55M	Sqm	45.00		
215	h	Seventh Floor@ 27.55 M	Sqm	45.00		
216	i	LMR@ -3.50m	Sqm	90.00		
217	j	Sump tak @ -3,50m + 0.45M	Sqm	200.00		
218	k	OHT @ 32.5M	Sqm	200.00		
219	l	DG Foundation @ -1.0m +1.0M	Sqm	80.00		
	4	STEEL				
220	4.01	<p>Fabricating & fixing in position reinforcement for RCC work with high yield strength ribbed cold twisted tor steel (HSD) bar of various diameters and grade of steel as specified below conforming to IS specification including cutting, providing, supplying & bending, hoisting, fabricating and placing in position according to drawings and binding the reinforcement with galvanised annealed binding wire of double fold of 18 gauge and providing PVC cover blocks for placing the reinforcements in position and for maintaining the cover specified and/or according to relevant IS.</p> <p>Note : Unless noted otherwise the measurements in accordance with IS 1200. However reinforcement shall be measured only in lengths of bars as actually placed in position on standard weight basis, no allowance being made in the weight for rolling margin. Authorized laps and splices only will be measured. Chairs of any shape & profile, Spacer bar of any shape & profile, cover block, wastage and binding wire will not be measured and shall be included in the quoted rates. Quoted rate shall be deemed to have considered the above stipulation. Quoted rate to include lead, lift, placing at all levels and as directed. Note: No variation in rates will be paid to contractor at any point of time. etc complete as per the direction of engineer incharge:-Fe 500</p>	MT	425.00		
	5	WATERPROOFING WORKS				
	5.01	FOR TERRACES				
221	a	<p>Providing and applying a coat of hot bitumen 85/25 @ 1.45 kg. per sq. m. on any surfaces and area, at any location and at levels, including cleaning the surfaces with wire brush, etc. complete as per instructions of EIC. @ all floors</p>	Sqm	830.00		



222	b	<p>Providing and laying 4 mm thick Mineral Finished APP (Atactic Polypropylene Polymer) @ all floors modified bitumen membrane of approved make (Pidilite Industries Ltd. / Sika India Pvt. Ltd. / STP Ltd., brand as per the Additional Specifications) over a priming coat of bitumen primer conforming to IS : 3384 @ 0.10 Litre to 0.30 Litre per sq. m. in any location and at all levels including preparation of surface, making good damages if any, laying APP membrane using butane / LPG torch with a minimum of 10 cm side laps and 15 cm end lap joints, etc. complete all as per manufacturers specifications and as directed by Engineer incharge.</p> <p>NOTE: a. 10% of the value of this item shall be retained with BNPAM for leak proof guarantee for a period of ten years from the date of completion. The same shall be refunded only after successful waterproof performance at the end of three years from the date of completion. b. No extra shall be paid for overlaps.a minimum of 10 cm side laps and 15 cm end lap joints, etc. complete all as per manufacturers specifications and as directed by engineer incharge</p> <p>1. Membrane thickness 4mm (+ or – 5%) 2. Tensile strength – Longitudinal 790 N/5cm Transverse 730 N/5cm</p> <p>3. Elongation of Membrane - Longitudinal 65% Transverse 69% 4. Tear Resistance - Longitudinal 180 N Transverse 190 N 5. Lap joint strength - Longitudinal 750 N/5cm Transverse 550 N/5cm 6. Puncture Resistance – Static 1.4 Dynamic 1.3 7. Water absorption - < 0.15% 8. Water permeability - Nil 9. Chemical resistance – Chloride, sulphate and Nitrate The area to be water proofed shall be free from loose aggregate, dust free and in dry condition. Primer must be applied to the surface and allowed to dry prior to application of membrane. The membrane shall be applied within 6 hours after application of primer. The membrane comes in a roll form shall be unrolled and placed in the correct position where it has to be torched. Each layer must over lap the next layer by min 10cm at the adjacent and 15cm at the ends. The heat application through propane gas torch shall be applied on membrane thus causing melting and subsequent adhesion in the surface. The membrane should be properly placed and torched on in staggered position.</p>	Sqm	830.00		
223	c	<p>Providing and laying integral cement based waterproofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc., consisting of following application. (A) Applying and grouting a slurry coat of neat cement using 2.75 kg/m2 of cement admixed with proprietary water proofing compound conforming to IS:2645 over the RCC slab after cleaning the surface before treatment.(b) Laying cement concrete using broken brick bats 25mm to 100mm size 50% of cement mortar 1:5 admixed with proprietary water proofing compound confirming IS 2645 Over 20mm thick layer of CM mortar 1:5 admixture with proprietary water proofing compound to required slope and treating similarly the adjoining walls upto 300mm height including rounding off junctions of wall and slabs c) After two days of proper curing, apply a second coat of cement slurry admixed with proprietary water proofing compound d)finishing the surface with 20mm thick jointless cement mortar of mix 1:4 admixed with proprietary water proofing compound and finally finishing the surface trowel and neat cement slurry and making of 300x300mm square e)the whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and final test including costv of material,labour complete as per specifications etc., complete along with manufacturers guarantee of 10 years'</p>	Sqm	812.00		
5.02		TOILETS				
224	a	<p>Cinder Filling:Providing and laying cinder concrete in cement 1:15 (1 cement : 15 cinder of 12.5mm nominal gauge) on terraced roof or sunken slabs, laid to slope compacting, including cost of materials, labour, curing complete as per specifications.</p>	cum	100.00		
225	b	<p>Providing two coats of Acrlc co polymer base water proofing systems in sunken protion as per the FOSRACK specification and as direct at site with 10year manufactures guarantee Note : The reates excludes bore packing. Pressure grouting : Pressure grouting using near cement slurry admixed with expansive grout additive. Treatment includes cutting V-grooves along the joints, cleaning and filling with polymer modified mortar and fixing up of GI nipples wherever necessary and pressure grouting, curing complete. Hunching : Providing 25mm thick polymer modified cement mortar in CM 1:3 at the rate of 1 liter of SBR per bag of cement and coating with polymer modified cement slurry in 2 coats and finishing neat. Treatment includes surface preparation and curing complete. GUGU Bolt Epoxy Filling : Providing Nontoxic solvent free high build protective epoxy putty over the gar cut GUGU bolts of 1/2 inch depth and 1 inch wide.</p>	Sqm	625.00		



		OHT /SUMP - INTERNAL -Providing waterproofing by Surface method Internally by following methods with min. 10 years guarantee. Of Fosrack make Crystallization : Providing and Laying proprietary, cement-base Catalytic In - Depth Crystalline water proofing system the crystalline material at a coverage rate of 1.5 kg/sqm in and as per manufacturers specification to permanently fix non-siluble crystalline growth throughout the capillary tracts and pores of concrete.The Crystalline Material should be applied by brushing at the coverage rate as shown above. Cost to include R.C.C preparation including cleaning and wire brushing the RCC Surface, curing complete.				
	5.03	Pressure Grouting : Pressure grouting using near cement slurry admixed with expansive grout additive. Treatment includes cutting V-groove along the joints, cleaning and filling with polymer modified mortar and fixing up of GI nipples wherever necessary and pressure grouting, curing complete. Hunching : Providing 25mm thick polymer modified cement mortar in CM 1:3 at the rate of 1 liter of SBR per bag of cement and coating with polymer modified cement slurry in 2 coats and finishing neat. Treatment includes surface preparation and curing complete. GUGU Bolt Epoxy Filling : Providing Non-Toxic solvent free high build protective epoxy putty over the gas cut GUGU bolts of 1/2 inch depth and 1 inch wide.				
226	a	SUMP:-Floors	Sqm	45.00		
227	b	SUMP:-Walls	Sqm	60.00		
228	c	OHT AT 33.0M LVL ABOVE TERRACE floor	Sqm	45.00		
229	d	wall	Sqm	70.00		
	6	MASONRY WORKS				
230	a	Providing and Providing,Supplying Random Rubble masonry in cement mortar 1:8 with proper bonds for foundation walls,drains,etc up to plinth level with hard stones including cost for providing bond stones as per specification,curing,raking up the joints upto average depth of 15mm,bailing out water from all sources etc complete.	Cum	65.00		
231	b	Providing and constructing Size stone masonry in foundation, walls, drain, retaining walls, compound walls, pillars etc., using sized stones in CM 1:6 (1 cement: 6 coarse sand) with necessary quoins, through bond stone and header stone at regular intervals including dressing the stone and edge pointing by chisel / hammer true to the required shape and size, curing, raking out joints, leads and lifts etc. at all levels and locations specified.	Cum	35.00		
232	c	Providing ruled pointing to coursed stone masonry with cement mortar 1:4, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications.	Sqm	60.00		
	6.01	Providing and constructing non load bearing wall with Light Weight Concrete Blocks of standard make conforming to IS:2185 (part-3) 1984 and IS 6441-1972 of compressive strength of 3.0N/sq mm with a thin layer of polymer based jointing solvent for super structure with necessary scaffolding, curing including cost of all materials, labour, lead& lift etc, complete as per specifications. - with 600x200x200mm size Blocks				
233	a	Stilt Floor 0 - 3.10 M	Sqm	178.00		
234	b	Ground Floor 3.1-6.10 M	Sqm	600.00		
235	c	First Floor 6.10 -9.10M	Sqm	600.00		
236	d	Second floor 9.10 -12.10	Sqm	600.00		
237	e	Third Floor 12.10 -15.10	Sqm	600.00		
238	f	Fourth Floor 15.10 -18.10	Sqm	600.00		
239	g	Fifth Floor 18.10 -21.10	Sqm	600.00		
240	h	Sixth Floor 21.30-24.10	Sqm	600.00		
241	i	Seventh Floor 24.10-27.10 M	Sqm	600.00		
242	j	Terrace,Head Room & Parapet 27.10 - 31.55	Sqm	225.00		



	6.02	Providing and constructing non load bearing wall with Light Weight Concrete Blocks confirming to IS:2185 (part-3) 1984 and IS 6441-1972 of compressive strength of 3.0N/sq mm with a thin layer of polymer based jointing solvent for super structure with necessary scaffolding, curing including cost of all materials, labour, lead& lift etc, complete as per specifications. - with 600x200x150mm size Blocks				
243	a	Stilt Floor 0 - 3.10 M	sqm	65.00		
244	b	Ground Floor 3.1-6.10 M	sqm	240.00		
245	c	First Floor 6.10 -9.10M	sqm	240.00		
246	d	Second floor 9.10 -12.10	sqm	240.00		
247	e	Third Floor 12.10 -15.10	sqm	240.00		
248	f	Fourth Floor 15.10 -18.10	sqm	240.00		
249	g	Fifth Floor 18.10 -21.10	sqm	240.00		
250	h	Sixth Floor 21.30-24.10	sqm	240.00		
251	i	Seventh Floor 24.10-27.10 M	sqm	240.00		
252	j	Terrace,Head Room & Parapet 27.10 - 31.55	sqm	140.00		
	6.03	Providing and constructing non load bearing wall with Light Weight Concrete Blocks confirming to IS:2185 (part-3) 1984 and IS 6441-1972 of compressive strength of 3.0N/sq mm with a thin layer of polymer based jointing solvent for super structure with necessary scaffolding, curing including cost of all materials, labour, lead& lift etc, complete as per specifications. - with 600x200x100mm size Blocks				
253	a	Stilt Floor 0 - 3.10 M	Sqm	30.00		
254	b	Ground Floor 3.1-6.10 M	Sqm	156.00		
255	c	First Floor 6.10 -9.10M	Sqm	156.00		
256	d	Second floor 9.10 -12.10	Sqm	156.00		
257	e	Third Floor 12.10 -15.10	Sqm	156.00		
258	f	Fourth Floor 15.10 -18.10	Sqm	156.00		
259	g	Fifth Floor 18.10 -21.10	Sqm	156.00		
260	h	Sixth Floor 21.30-24.10	Sqm	156.00		
261	i	Seventh Floor 24.10-27.10 M	Sqm	156.00		
262	j	Terrace,Head Room & Parapet 27.10 - 31.55	Sqm	50.00		
	7	PLASTERING WORKS				
	7.01	Providing 15 mm thick internal cement plaster in a single coat with cement mortar 1:6 to brick/block masonry including rounding off corners wherever required smooth rendering, providing & removing scaffolding, including cost of materials, labours, curing complete as per specifications.				
263	a	Stilt Floor 0 - 3.10 M	Sqm	445.00		
264	b	Ground Floor 3.1-6.10 M	Sqm	2100.00		
265	c	First Floor 6.10 -9.10M	Sqm	2100.00		
266	d	Second floor 9.10 -12.10	Sqm	2100.00		



267	e	Third Floor 12.10 -15.10	Sqm	2100.00			
268	f	Fourth Floor 15.10 -18.10	Sqm	2100.00			
269	g	Fifth Floor 18.10 -21.10	Sqm	2100.00			
270	h	Sixth Floor 21.30-24.10	Sqm	2100.00			
271	i	Seventh Floor 24.10-27.10 M	Sqm	2100.00			
272	j	Terrace,Head Room & Parapet 27.10 - 31.55	Sqm	134.00			
	7.02	Providing 12 mm thick cement plaster in a single coat with cement mortar 1:4 to ceiling including rounding of corners wherever required smooth rendering providing and removing scaffolding,including cost of materials,labour,curing complete as per specifications					
273	a	Stilt Floor 0 - 3.10 M	Sqm	752.00			
274	b	Ground Floor 3.1-6.10 M	Sqm	718.00			
275	c	First Floor 6.10 -9.10M	Sqm	718.00			
276	d	Second floor 9.10 -12.10	Sqm	718.00			
277	e	Third Floor 12.10 -15.10	Sqm	718.00			
278	f	Fourth Floor 15.10 -18.10	Sqm	718.00			
279	g	Fifth Floor 18.10 -21.10	Sqm	718.00			
280	h	Sixth Floor 21.30-24.10	Sqm	718.00			
281	i	Seventh Floor 24.10-27.10 M	Sqm	718.00			
282	j	Terrace,Head Room & Parapet 27.10 - 31.55	Sqm	52.00			
	7.03	Providing 18 mm thick exterior sand faced Cement Plaster in all heights as per the drawing (Upto 35M) in two layers with first base coat of 14mm thick in cement plaster 1:4 (1 cement :4 coarse sand) and second finishing coat of 6mm thick in cement plaster 1:3 (1 cement : 3 fine sand) for all external surfaces including chipping/ hacking of concrete surface or block masonry wall,etc. finishing, curing, scaffolding, waterproofing compound Conplast X4211C (FOSROC) 200 ml per bag of cement or equivalent, and mix of Recron 35 fiber 100gram per cement bag,etc complete as per the direction of engineer incharge					
283	a	Stilt Floor 0 - 3.10 M	Sqm	350.00			
284	b	Ground Floor 3.1-6.10 M	Sqm	565.00			
285	c	First Floor 6.10 -9.10M	Sqm	565.00			
286	d	Second floor 9.10 -12.10	Sqm	565.00			
287	e	Third Floor 12.10 -15.10	Sqm	565.00			
288	f	Fourth Floor 15.10 -18.10	Sqm	565.00			
289	g	Fifth Floor 18.10 -21.10	Sqm	565.00			
290	h	Sixth Floor 21.30-24.10	Sqm	565.00			
291	i	Seventh Floor 24.10-27.10 M	Sqm	565.00			
292	j	Terrace,Head Room & Parapet 27.10 - 31.55	Sqm	300.00			



	7.04	Providing rough cement plastering 15mm thick in single coat with cement mortar 1:6, to brick masonry for base of dadoing works with sand of approved quality, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.				
293	a	Ground Floor 3.1-6.10 M	Sqm	270.00		
294	b	First Floor 6.10 -9.10M	Sqm	271.00		
295	c	Second floor 9.10 -12.10	Sqm	272.00		
296	d	Third Floor 12.10 -15.10	Sqm	273.00		
297	e	Fourth Floor 15.10 -18.10	Sqm	274.00		
298	f	Fifth Floor 18.10 -21.10	Sqm	275.00		
299	g	Sixth Floor 21.30-24.10	Sqm	276.00		
300	h	Seventh Floor 24.10-27.10 M	Sqm	277.00		
301	7.05	Providing and fixing of size 50 mm x 50 mm x 4 mm thk. aluminum Corner Beading for the corners edges	Rmt	2000.00		
302	7.06	Providing and fixing plaster mesh 150mm wide manufactured out of hot dipped galvanised iron of nominal thickness 0.35mm with a zinc coating of 120gms per sqm width, along route of walls chipped for services, junction between RCC and brick walls including cost of materials, labour for fixing complete as per specifications. (length of mesh only be measured for payment) etc complete as per the direction of engineer incharge (in all hts.0-35.00 M)	Rmt	4500.00		
303	7.07	Providing and fixing plaster mesh 100mm wide manufactured out of hot dipped galvanised iron of nominal thickness 0.35mm with a zinc coating of 120gms per sqm width, along route of walls chipped for services, junction between RCC and brick walls including cost of materials, labour for fixing complete as per specifications. (0-35.00 M in all heights)(length of mesh only be measured for payment)	Sqm	4200.00		
	8	PAINTING				
304	8.01	Providing melamine polishing in all heights of bldg of approved shade including removing and refixing of doors shutters scraping with blade and rubbing with zero size sand paper and applying sealer coat by way of spraying with necessary compressor and applying patty after rubbing with steel wool including two coats of approved shade of melamine polish etc., complete.(0-35.00 M)	Sqm	450.00		
305	8.02	Providing applying two coats of wall putty (Birall/JK Putty) in all heights of bldg to inside plastered walls and ceiling using white cement putty. Scraping and levelling the surface using steel blade prepareig the surface even ad smooth by using different grade sand papers including cost aof all aterials , cost of labours and wcaffolding etc., commplete as per the specification (0-35.00 M)	Sqm	19480.00		
306	8.03	Providing and applying painting in two coats with plastic emulsion paint in all heights of bldg of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications. - with primer. (0-35.00 M)	Sqm	19480.00		
307	8.04	Providing external walls with texture finish in all height (0-35.00 M) using approved brand paint, applied uniformly in three coats over one coat of primer including cost of all materials, machineries, labour, transportation, loading and unloading, all lead and lift and all other incidental charges including scaffolding and removing stains, complete as per specifications.	Sqm	2500.00		
308	8.05	Providing and applying enamel paint two coats in all heights of bldg Including cost primer coat) over new steel or other metal surface brushing to give an even shade after cleaning oil,grease,dirt and other foreign matter,including cost of materials,labour, complete as per specifications Entrance lobby, grill gate (Windows grills) (0-35.00 M)	Sqm	2000.00		
309	8.06	Providing for applying two coats of enamel paint to give an even shade after cleaning the surface of all dirt, dust and foreign matter, sand papering including cost of materials, over applying two coats of priming over new wood surface, after brushing with ready mix enamel priming paint including preparing the surface after thoroughly cleaning oil, grease, dirt and foreign matter, sand papering and knotting ready mix paint including cost of materials, labour, complete as per instruction of Engineer Incharge. (0-35.00 M)	Sqm	564.00		
	9	DOORS AND WINDOWS				



310	9.01	<p>Providing and fixing in position aluminium windows and ventilators as per approved drawings with sliding shutters using three track window frame of size 92x31.75mm bottom section 1.3mm thick, weight 1.07kg/m; sides and top sections 1.3 mm, thick, weight 0.933 kg/m.shutter frame section comprising top and bottom section of size 40mmx18mm, wall thickness 1.25mm. weight 0.417 kg./m. shutter side outer 40mmx18mm. wall thickness 1.25mm. weight 0.417 kg/m, shutter interlock section 40mmx26.7mm wall thickness 1.1 mm. thick, weight 0.469 kg/m, the shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc.;</p> <p>providing and fixing 5.5mm. thick plain glass for shutters fitted with rubber beading all aluminium sections including cutting to required length, joints mitred subdividing the frame tenoned and rivetted, in the assembled frame, stiffened with end clips for corners, angles etc., and fixed to the walls, lintels, floor beams/cills as the case may be, with necessary steel screws, raul plugs or teak wood gatties including cutting masonry or concrete and making good the original surface using cement mortar. and Providing & fixing aluminium / fibre mosquito net as approved by the Architect for Aluminium Windows/ balcony doors consisting of around framing of extruded aluminium sections of size 25mm x 18mm for vertical section, 18mmx40mm for top section and 40mm x 18mm for bottom section compatible for pleated screen system made of aluminium/ fibre glass mesh complete as per manufacturer specifications. Locking shall be provided with permanent rubber magnets for sturdy and easy locking fixed on the powder coated vertical style.using aluminium section powdered coated to a minimum of 60-70 microns with exterior durable pure polyester grade powder of approved quality.</p>	Sqm	1450.00		
311	9.02	<p>Providing & fixing of Top hung Ventilator With Exhaust Fan Provision made as per approved drawings with sliding shutters using double track window frame section of size 61.85x31.75mm. with 1.2mm thick, bottom section weight 0.695 kg/m, sides and top sections 1.3 mm. thick weight 0.659 kg/m; and shutter comprising top and bottom section of size 40mmx18mm, 1.25mm thick 0.417 kg./m; shutter outer side 40mmx18mm, 1.25mm.thick weight 0.417 kg/m, shutter interlock section 40mmx26.7mm, 1.1mm thick, weight 0.469 kg/m, the shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc.; and providing and fixing 5.5mm. thick plain glass for shutters fitted with rubber beading aluminium sections including cutting to required length, joints mitred subdividing the frame tenoned and rivetted in the assembled frame stiffened with end clips at corners angles etc., and fixed to the walls, lintels, floor beams/cills as the case may be with necessary steel screws, raul plugs, or teak wood gatties including cutting masonry or concrete and making good the original surface using cement mortar, aluminium sections pretreated for removal of any Specification .</p> <p>using aluminium section powdered coated to a minimum of 60-70 microns with exterior durable pure polyester grade powder of approved quality.</p>	Sqm	60.00		
312	9.03	<p>Providing and fixing M S grill work for windows and ventilaors weighting 18 kg /sq mt using M S flats or M S square rods or combinations of M s flat and square rods as per approved design drawing including cutting steel sections and welding the same to required pattern which includes applying enamel paint two coats Including cost primer read lead coat over new steel or other metal surface brushing to give an even shade after cleaning oil,grease,dirt and other foreign matter,including cost of materials, labour, complete as per specifications Entrance lobby, grill gate ,Windows grills .Rate includes cost of materials fixtures labours and HOM of machineries complete as per specifications.</p>	Sqm	1200.00		
313	9.04	<p>Providing Teak wood frames of doors,and other frames, wrought, framed or assembled including making plaster groves (including cost of cement concrete and side clamps,hardwares etc complete), but including cost of materials, labour, HOM of machineries complete as per specifications.</p>	Cum	5.50		
314	9.05	<p>Providing and fixing in position fully panelled Teak wood shutters for doors, styles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM of machineries complete as per specifications. (including cost of fixturesand harwares) like handle ,Locks and hinges,tower bots ,latches and stoppers etc complete</p>	Sqm	168.00		
315	9.06	<p>Providing and fixing door frames Matti/Nandi wood frames of size (75x125mm) doors, windows, clerestory windows, ventilators and other frames wrought, framed or assembled including making plaster grooves (Including cost of cement concrete and side clamps,hardwares etc complete)and including cost of materials, labour, HOM of machineries complete as per specifications</p>	Cum	18.00		
316	9.07	<p>Providing and fixing factory made splendor of solid core single leaf rigid composite polymer laminated Flush door shuttes of required thickness, manufactured out of solid core door conforming to IS 2202 (part -1)1991, laminated with 0.8 mm thick polymer, termite,water resitant and with various premoulded design on both faces conforming to IS 6307-19585, using adhesive conforming to IS 4835-1979 and door shutters tested in confirmation to IS 4020-1994.The finish of shutters will be TEADK /OAK/ CEDER/ ROSE WOOD /WALNUT plain colours WHITE /IVORY/ BEIGE/ LIGHT GREY including cost of fixtures and inclusive of Providing,Supply of shutters to respective work spot 35 mm thick door shutters including cost of fixtures and harwares like handle ,Locks and hinges,tower bots ,latches and stoppers etc complete</p>	Sqm	620.00		



	10	Flooring				
	10.01	Flooring--Providing and laying flooring /Cladding/Staircase/steps / Window sills for corridors/lobbies / using with 25mm to 40mm thick polished tandur blue stone slabs using cement mortar 1:6, 25mm thick over existing cement concrete bed or top of roof laid to line and level and jointed with cement slurry mixed with pigment to match the shade of the slab, , including cost of materials, labour, curing, polishing complete as per specifications/ engineer in charge/Architec				
317	a	Stilt Floor @ + 0.45M	Sqm	63.00		
318	b	Ground floor UPTO 3.10M	Sqm	103.00		
319	c	First Floor UPTO 6.30M	Sqm	103.00		
320	d	Second floor UPTO 9.50M	Sqm	103.00		
321	e	Third Floor UPTO 12.70M	Sqm	103.00		
322	f	Fourth Floor UPTO 15.90M	Sqm	103.00		
323	g	Fifth Floor UPTO 19.10M	Sqm	103.00		
324	h	Sixth Floor UPTO 22.30 M	Sqm	103.00		
325	i	Seventh Floor UPTO 25.50 M	Sqm	103.00		
326	j	Terrace Floor UPTO 28.70M	Sqm	103.00		
327	10.02	Providing full nosing for 25mm to 40mm thick polished tandur slab using required machinery including cost and conveyance of all materials, labour for all items of work, HOM of equipment etc., complete as per specification.at all floors (0.00-30.00M)	Rmt	750.00		
328	10.03	Providing and fixing kitchen platform black colors pre polished 25 mm thick water cut/gang saw Granite in all floors (0-30.00 M)with MS Steel brackets grooved/fixd to wall in CM 1:4 average 25mm thick pointed with white cement/colour pigment etc., complete. Basic Rate Rs.2200/Sqm inclusive of transportation,all tax,loading and unloading etc. Rate includes all lifting charges at all floors.(0.00-30.00M)	Sqm	250.00		
	10.04	Providing VITRIFIED TILES flooring with 60 cms x 60 cms of approved make, shade and size for flooring laid on a bed of 12 mm thick cement mortar 1:3 mix,flush pointing with white cement using colour pigment, including cost of materials, labour, curing complete as per specifications Note: The skiting quantity will be considered in Sqm/horizontal measurements. Basic Rate Rs.750/Sqm excluding transportation,tax,loading and unloading etc.The rate includes cleaning/washing with acid wash etc complete.Rate includes all lifting charges at all floors.				
329	a	Stilt Floor @ + 0.45M	Sqm	125.00		
330	b	Ground floor UPTO 3.15M	Sqm	550.00		
331	c	First Floor UPTO 6.15M	Sqm	550.00		
332	d	Second floor UPTO 9.15M	Sqm	550.00		
333	e	Third Floor UPTO 12.15M	Sqm	550.00		
334	f	Fourth Floor UPTO 15.15M	Sqm	550.00		
335	g	Fifth Floor UPTO 18.15M	Sqm	550.00		
336	h	Sixth Floor UPTO 21.15 M	Sqm	550.00		
337	i	Seventh Floor UPTO 24.15 M	Sqm	550.00		
338	j	Terrace Floor UPTO 28.75M	Sqm	100.00		



	10.05	Providing Anti Skid ceramic tiles of approved make,shade and size for flooring treads for steps and landings laid on a bed of 12 thick, cement mortar 1:3 mix,Flush pointing with white cement using colour pigment,including cost of aterials,labour,curing,complete as per specification. Specification no KBS approved colour of size(30cmsX30cms) Basic Rate Rs.500/Sqm including transportation,tax,loading and unloading etc.The rate includes cleaning/washing with acid wash etc complete. Rate includes all lifting charges at all floors.					
339	a	Ground floor UPTO 3.15M	Sqm	65.00			
340	b	First Floor UPTO 6.15M	Sqm	65.00			
341	c	Second floor UPTO 9.15M	Sqm	65.00			
342	d	Third Floor UPTO 12.15M	Sqm	65.00			
343	e	Fourth Floor UPTO 15.15M	Sqm	65.00			
344	f	Fifth Floor UPTO 18.15M	Sqm	65.00			
345	g	Sixth Floor UPTO 21.15 M	Sqm	65.00			
346	h	Seventh Floor UPTO 24.15 M	Sqm	65.00			
	10.06	Providing skirting, dado, rises of ceramic tiles with colour glazed tiles 6mm thick on 18 mm thick rough cement plaster 1:3 and jointed with white cement slurry over rough plaster surface (excluding cost of rough plaastered which should be measured and paid separately) using glazed tiles of approved make and size including cost of materials, labour, complete as per pecifications.Basic Rate Rs.600/Sqm including transportation,tax,loading and unloading etc.The rate includes cleaning/washing with acid wash etc complete.Rate includes all lifting charges at all floors.					
347	a	Ground floor UPTO 3.10M-5.4M	Sqm	245.00			
348	b	First Floor UPTO 6.10M - 8.2M	Sqm	245.00			
349	c	Second floor UPTO 9.10M 11.20M	Sqm	245.00			
350	d	Third Floor UPTO 12.10M - 14.20M	Sqm	245.00			
351	e	Fourth Floor UPTO 15.10M - 17.20M	Sqm	245.00			
352	d	Fifth Floor UPTO 18.10M - 20.20M	Sqm	245.00			
353	f	Sixth Floor UPTO 21.10 M - 23.20 M	Sqm	245.00			
354	g	Seventh Floor UPTO 24.10 M 26.20M	Sqm	245.00			
355	h	Flooring:-Providing and laying Cladding for lift @ all height using combination of two colors pre-polished 20 mm thick water cut/gang saw Granite, over existing cement concrete bend in CM 1:4 average 20mm thick pointed with white cement/colour pigment etc., complete. Basic Rate Rs.2000/Sqm excluding transportation,tax,loading and unloading etc.	sqm	135.00			
	11	Lath Plaster					
	11.01	Providing lath plaster with cement mortar 1:3 , 5cms thick with 6mm dia mild steel bars at 20 cms. c to c both horizontally and vertically fixing chicken mesh for drop chajja, fascia, backing to cup boards including cost of all materials, labour, providing and removing form work, curing, complete as per specifications. and directions of the Enginee-in-charge.					
356	a	Stilt Floor +0.45 - 3.10 M	Sqm	25.00			
357	b	Ground floor UPTO 3.10M	Sqm	75.00			
358	c	First Floor UPTO 6.10M	Sqm	75.00			
359	d	Second floor UPTO 9.10M	Sqm	75.00			



360	e	Third Floor UPTO 12.10M	Sqm	75.00			
361	d	Fourth Floor UPTO 15.10M	Sqm	75.00			
362	f	Fifth Floor UPTO 18.10M	Sqm	75.00			
363	g	Sixth Floor UPTO 21.10 M	Sqm	75.00			
364	h	Seventh Floor UPTO 24.10 M	Sqm	75.00			
365	i	Terrace Floor UPTO 27.10M	Sqm	25.00			
	12	Railings					
366	12.01	Providing and fixing 304-grade stainless steel hand rail of 14-gauge pipes for ramps or staircase are made out of stainless steel hollow pipes, using 50mm dia for verticals @ 0.90mtr c/c are fixed to the ramps or steps by drilling with bolts and 100mm dia MS base plates 10mm gauge for fixing of vertical pipes 4-Nos anchor bolts & 60mm dia pipes are fixed horizontally for 1-rows top, oone pipe are fixed with vertical pipes another one are fixed with elbows and 25mm dia pipes are fixed horizontally for 4-rows below top measure @ equal intervals including cutting, welding, bending wherever necessary with suitable caps @ tops, bottom and corners finishing with mat / shining etc., complete including cost and conveyance of all materials, labour for all items of work, HOM of equipment with all lead and lift, loading and unloading, transportation charges and all other incidental charges etc., complete as per specifications and directions of the Enginee-in-charge. Rates includes fixing of railing at all floors (0.00-32.00M)	Sqm	115.00			
367	12.02	Providing and fixing 304-grade stainless steel hand rail of 14-gauge pipes for Balconies are made out of stainless steel hollow pipes, using 50mm dia for verticals @ 1.60mtr c/c are fixed to the ramps or steps by drilling with bolts and 100mm dia MS base plates 10mm gauge for fixing of vertical pipes 4-Nos anchor bolts & 60mm dia pipes are fixed horizontally for 2-rows top, one pipe are fixed with vertical pipes another one are fixed with elbows and 25mm dia pipes are fixed horizontally for 2-rows below top measure @ equal intervals including cutting, welding, bending wherever necessary with suitable caps @ tops, bottom and corners finishing with mat / shining etc., complete including cost and conveyance of all materials, labour for all items of work, HOM of equipment with all lead and lift, loading and unloading, transportation charges and all other incidental charges etc., complete as per specifications and directions of the Enginee-in-charge. Rates includes fixing of railing at all floors (0.00-32.00M)	Sqm	390.00			
368	13	Providing and laying heavy duty cobble stones 60mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications.	Sqm	250.00			
369	14	Providing and fixing Pre cast solid concrete kerb stones made out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting etc., complete (of size of 450 x 150 x 500 mm)	Rmt	120.00			
	15	MISCELLANEOUS WORKS					
370	a	Providing and placing on terrace, polyethylene water storage tanks with manhole lid and suitable locking arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes, including cost of all materials, labour, transport charges, HOM of equipments and testing complete as per specifications.	Lit	20000.00			
371	b	Providing and fixing M.S. Gate as per Drawing, using 50mm x 50mm 14 gauge M.S. hollow pipe frame work bent to ornamental shape as shown in the drawing and 35mm x 6mm and 16 x 16mm Square rods for verticals alternatively spaced at 4cms c/c in two halves and 40mmx6mm M.S. flats for horizontal member and at the top cast iron spikes are provided at alternate vertical members as shown in the drawing etc., complete. All the steel surface should be thoroughly cleaned free of rust and painted with anti corrosive paint (shop paint) etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, with lead and lift, loading and unloading charges, etc., complete as per specification.	Sqm	18.00			



372	c	Providing,Supplying, Fabricating as per specifications and fabrication drawings, transporting to site and erecting structural steel members for all types of structure and for all heights & at all levels including provision of necessary erection bolts, fixing bolts, nuts, washers, cleats, stiffeners, gussets, base plate, and all necessary operations but not limited to preheating as per specifications, straightening, bending, cutting, drilling, grinding, machining if specified, welding etc. complete (weight of the bolts and nuts and welds shall not be considered for payment) and painting of structural steel by shot blasting using high velocity sand particles and applying one coat of zinc phosphate primer (shop coat) and one coat of Synthetic Enamel paint (after fabrication) and second coat of Synthetic enamel Paint (after erection) of approved manufacture, brand, colour and shade etc as per specifications at all elevation and as directed including Providing,Supply of paint, cleaning and preparing the surface, scaffolding etc. complete.	M.T	30.00		
373	d	Providing,Supplying, Laying and fixing approved 3mm thick corrugated fiber glass reinforced polycarbonate plain translucent sheets roof light sheets on roofs, side & gable end cladding as per manufacturers specifications including fittings, all accessories, etc. complete.	sq.m	150.00		
374	e	Providing,Supplying, providing, painting and fixing in position mild steel ladders for over head tank, terraces of approved width as per drawings and as directed by Engineer-in-Charge.	MT	3.00		
375	f	Providing and fixing External wall cladding – 6mm thick fiber cement boards with 25mm x25mm x 1.5mm thick aluminium extruded frames at all heights 0-30M .Rates inclusive of necessary hardwares, fixtures, and scaffolding	sq.m	600.00		
376	g	M.S Grating for drain covering:-Using M.S angle frame of size 75mmx50mmx6mm frame fixed with 50dia 3mm thk hollow pipes welded to angle frame	sqm	95.00		
377	h	Providing orange colour safety foot rest of minimum 6 mm thick plastic encapsulated as per IS : 10910, on 12 mm dia steel bar conforming to IS : 1786, having minimum cross section as 23 mmx25 mm and over all minimum length 263 mm and width as 165 mm with minimum 112 mm space between protruded legs having 2 mm tread on top surface by ribbing or chequering besides necessary and adequate anchoring projections on tail length on 138 mm as per standard drawing and suitable to with stand the bend test and chemical resistance test as per specifications and having manufacture's permanent identification mark to be visible even after fixing, including fixing in manholes with 30x20x15 cm cement concrete block 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) complete as per desig For manholes ,sump tank and overhead tank.	Each	40.00		
378	i	Providing and fixing 100mmx100mm 1mt height round face 10mm thk. Rubber material having highly impact resistance and chemical , wheather corosin resistant weighing minimum 7.50kg per piece at the corners of columns and walls in the parking area	Each	200.00		
379	j	Providing and fixing arial M.S ladder in ducts of approximate height 30.0m and 0.75x.6 m landing at every every floor approximate height 3.15m and steps size 0.60x0.25M using 65mmx65mmx6mm angle welded to gether for frame as per dwg. , mild steel iron handrail of 40mm diameter tube, with a guard rail at 1m high from the top of tread, 6mm thk mild steel chequered plate landing and steps, 1:3:6 cement concrete foundation and painting in three coats of approved oil paint etc., complete.	kg	1500.00		
380	k	Providing and fixing 300x300x4mm thick M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer. for structural steel	each	50.00		
381	l	Painting two coats after filling the surface with synthetic enamel paint radium base reflective in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications.	sqm	10.00		
382	m	Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Concrete/Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications.	sqm	20.00		



383	n	Retro-Reflectorised Traffic Signs - Manufacturing, Providing,Supply and installation of retro- reflectorised cautionary, mandatory and informatory signboards made out of cube corner micro prismatic grade sheeting conforming to 900 MM Equilateral triangle type XI standards of IRC :67:2012 specifications & fixed over 4 mm thick aluminium composite panel sheet having minimum 0.30 thick aluminium skin on both sides & fixed over a support frame of 25x25x3 mm MS angle and mounted on 75mm dia OR 75x75x6mm Mild steel angle of total height 2.70m with clear height of not less than 2.10 m from the ground level to the bottom of the sign board & 60 cm below ground level. The sign post should be painted with one coat of red oxide paint and white colour with brands of 30 cm height alternatively firmly fixed to the ground by means of foundation with M20 grade cement concrete of 45 cm x45 cm x 60 cm including cost & conveyance of all materials, equipment, machinery & labour with all leads and lifts, loading charges necessary for satisfactory completion of the work as directed by engineer in charge. 10 years warranty for retro reflective sheeting from the original sheeting manufacturer as per clause 6.9 in IRC 2012 & a certified copy of three years outdoor exposure report from an independent test lab for the product offered shall be obtained from the supplier.	each	4.00		
384	o	Providing 150mm dia Wall bores in Brick/Block masonry upto 30 cm thick. For electrical/Plumbing/Chimany exhaust	Each	200.00		
385	p	Providing 150 -200mm dia bores/cutout in Concrete coulmn/beams /slabs upto 30 cm thick. Electrical/Fire/Plumbing services	each	175.00		
386	q	BORE PACKING for pipe joints Providing & applying high strength non shrink free flow grout (confirming to BS 1881-Part 116 : 1983)comprising of blend of portland cement, graded fillars and chemical additives which impart controlled expansion in the plastic state duly minimizing water demand. (Minimum 25mm thickness around the pipe) Standards 1. Compressive strength for 28 days 78 N/sqmm 2. Flowable (Water powder ratio 0.18) 3. Pourable (Water powder ratio 0.165) 4. Tensile strength for 28 days 3.5 N/ sqmm 5. Flexural strength for 28 days 10 N/ sqmm 6. Unrestrained expansion – 2 to 4 % in the plastic state Methodology : Non shrink free flow grout shall be added to the water in the ratio of 25 Kg : 4.125 ltrs of water for pourable condition and for flowable condition 4.5 ltrs by using heavy duty slow speed grill (400 to 500 RPM) fitted with the suitable peddle for 5 minutes. To get the best result the mixed grout should be placed and used in 20 minutes after the mixture.	Each	200.00		
	16	Providing and fixing heavy-duty Mechanical Anchor Fasteners with washers of Size				
387	a	12mm dia	each	150.00		
388	b	16mm dia	each	150.00		
389	c	20mm dia	each	150.00		
390	d	25mm dia	each	150.00		
	17	Providing and fixing Cast-in-situ R.C.C.slabs with OPC cement design mix M30 @ 360kgs , with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @ 0.46cum, with superplasticiser @3lts conforming to IS9103-1999 Reaffirmed-2008 including reinforcement as per drawings including cost of all materials, labour, complete as per specifications.				
391	a	50mm thk	sqm	10.00		
392	b	75mm thk	sqm	10.00		
393	c	100mm thk	sqm	10.00		
394	d	125mm thk	sqm	5.00		
	18	SURFACE DRAINS(RCC DRAINS)				
395	a	Earth work excavation for foundation of buildings, culverts, water Providing,Supply , sanitary lines and electrical conduits either in pits or in trenches 1.5 m and above in width, in ordinary soil not exceeding 1.50 in dpeth including dressing the bottom and sides of the pits and trenches, stacking the excavated soil clear from the edges of excavation with lead upto 50 meters and after breaking clods complete as per specifications.	Cum	130.00		
396	b	Providing and laying in position plain cement concrete of nominal mix 1:4:8 using 40 mm and down size graded granite metal, machine mixed,concrete laid in layers not exceeding 15 cms thick, well compacted, in foundation and plinth, including cost of all materials, labour, ,curing, complete as per specifications.	Cum	17.00		



397	c	Providing and laying in position plain cement concrete of nominal mix 1:2:4 using 20 mm and down size graded granite metal, machine mixed, concrete laid in layers not exceeding 15 cms thick well compacted in foundation, plinth and cills, including cost of all materials, labour, , curing complete as per specifications.	Cum	35.00			
398	d	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specifications.	sqm	500.00			
399	e	Providing and fabricating TMT steel reinforcement bars including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary as per design	KG	1000.00			
400	f	PROVIDING AND FIXING,FABRICATED M.S.GRATING USING 25MM X8MM TH CIRCULAR BAR WITH REQUIRED FRAMING OF SIZE 75MMX55MMX8MM	SQM	100.00			
		ROAD WORK					
19		ROAD					
401	a	Earth work Excavation in all types of soil including Ordinary soil,Hard Soil, disintegrated/ weathered/ soft rock (Poelainable),Hard Rock for Foundations,trenches, Footings of columns, Retaining walls, Core walls, catch pits, Lift pits, trenches for drains, and sump etc., by mechanical means including manual excavation for leveling, dressing the edges, with all leads and lifts . Dewatering of both ground and surface water, removal of slurry generated while excavation and keeping the area free of water with necessary shoring, strutting, required for keeping earth in position etc. Rate to include disposing the excess earth and spreading in layers to the required levels within the site wherever specified and carting away out side the site to the designated areas upto lead of 1500m as directed by the Engineer . Note:PCC area shall be considered for measurement (Working space & provision of slopes if required for execution shall not be paid separately).Recommendations mentioned in the Geo technocal investigation will have to be fulfilled. etc complete as per the direction of engineer incharge	Cum.	600.00			
402	b	Construction of road embankment with material gravel / murrum. Construction of embankment with approved material gravel/murrum with all lift & lead transporting to site,spreading to required slope and compacting to meet requirement table300 2 complete as per specification (Which includes cost of gravel/murrum,watering charges & compaction by vibratory roller)	Cum.	600.00			
	c	Construction of granular sub base by providing close grade material mixing in a mechanical mix plant at OMC,carriage of material to work site,spreading in uniform layers with mortar grader on prepared surface and compacting with vibratory power roller to achieve the desired density,complete as per specifications. Quarring, breaking, handling and stacking at quarry, hard graded broken metal with all lead and lift size range Granite Metal)					
403	d	For grade II material	Cum.	140.00			
404	e	53mm to 22.4mm Grade - 3 5M ROAD	Cum.	140.00			
405	f	ASPHALTING: Providing and applying primer coat for surfaces of low & medium porosity respectively over prepared surface of granular base with cut back MC-70 or any other bitumen mixed with diesel at 10 kg per 10 sqm heated in bitumen boiler fitted with spray set (Excluding cleaning of road surface)including cost of all materials,labour,HOM of machinaries complete as per specifications.	Sqm.	800.00			
406	g	Tack coat Providing and applying tack coat with bitumen emulsion using emulsion pressuredistributor at the rate of 0.20 kg per sqm on the prepared bituminous / granular surface cleaned with mechanical broom.complete as per specifications.	Sqm.	800.00			
407	h	Providing and laying open graded premix carpet of 20mm thick on prepared surface in a single course as wearing course composed of 11.2mm and 13.2mm size stone aggregates 0.027 cum/ sqm premixd with bituminous binder at 1.46kg/sqm in mini hot mix plant 6-10 tonne capacity laying manually and rolling with power roller 8-10 tonne, excluding cost of tack coat, including cost of all materials, labour, HOM of machineries complete as per specifications using VG 10 (80/100) grade.	Sqm.	800.00			
408	i	Providing and laying of sand seal coat with HMP of appropriate capacity not less than 75 tonnes/Hour using crushed stone chippings 6.70 mm size and penetration bitumen of suitable grade complete as per specification.	Sqm.	800.00			
409	j	Painting lines, dashes, arrows etc.,on Roads in two coats on New Work:Painting lines, dashes, arrows etc on roads in two coats on new work with ready mixed road marking paint conforming to IS:164 on bituminous surface, including cleaning the surface of all dirt, dust and other foreign matter, demarcation at site and traffic control complete as per specifications.) Over 10 cm in width.	Sqm	50.00			
		PLUMBING WORKS (WATER SUPPLY AND SANITARY WORKS					



	20	PLUMBING FIXTURES & FITTINGS				
410	20.1	Providing,Supply, fixing and testing of White glazed wall hung European water closet of concealed P trap fixed with C.I.Brackets, sunk in to the wall & floor, fitted with rag bolts and nuts, with fittings consisting of water divider inlet rubber bung, outlet gasket, matching polypropylene seat cover etc., along with Dual Flush concealed cistern, w.c. inlet connector, etc. 80mm thick, all complete. all of approved make. Providing,Supply of EWC P Trap. HSW. Constellation. Providing,Supply of Seat cover & accessories kit. Providing,Supply of cistern Flush plate. Geberit alpha 15, chrome. Providing,Supply of cistern Geberit alpha naked 109.010.001 , wallhung fittings & Rag bolts and nuts. Angle cocks JAQ.- 3057.	Each	64.00		
411	20.2	Providing,Supplying, installing, testing and commissioning of approved make white vitreous china clay, water closet Orissa patten of size 530 x 410mm with integral type footrests, 100mm S or P trap, 10 litre low level, PVC flushing cistern (all are approved make) with fittings, C.I / M.S brackets, 32mm diameter flush pipe fittings and clamps, overflow arrangements with specials and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making . The work shall include cutting making of walls and floors etc; complete as directed by the Engineer in charge. Notes:The rates quoted shall include cost of necessary consumables like brass screws, CP extension nipple of approved make, dia and length, wooden plugs, white cement, sealants etc., Only drilling machines shall be used for making the holes in the walls for fixing, no wall jumper and hammer will be allowed. Sanitary Make:Hindware	EACH	64.00		
412	20.3	Providing,Supply & fixing of white glazed rectangular wash basin, with tap, 32mm dia. waste coupling, 32mm P trap, 40mm waste pipe concealed in wall up to floor trap, with necessary fittings, 1 no 15mm CP tap, 15mm angle cocks, CP wall flanges, CP inlet pipes etc. complete. Wash Basi HSW ,Waste coupling, JAQ - ALD -709, bottle trap, JAQ - ALD - 769,Wall hung C.I.fittings,& Rag bolts.Angle cock JAQ.- 3057.CP inlet pipe,JAQ,ALD-803 B	EACH	128.00		
413	20.4	Providing,Supply and fixing of 15mm CP brass Bib cock with wall flange. JAQ -CON-349KN. (Car Wash area.)	EACH	2.00		
414	20.5	Providing,Supply and fixing of approved make shower unit, consisting Single lever concealed diverter with button on top, built in non return valve, over head shower, shower arm, plain spout, wall outlet, and bracket. etc., complete. CONCEALED DIVERTER. JAQ -ALD-CHR-065 / 85079K.OVER HEAD SHOWER. JAQ.-OHS-85859.SHOWER ARM. JAQ. - SHA-CHR-455L600.PLAIN SPOUT. SPJ-CHR-85429	EACH	128.00		
415	20.6	Providing,Supply and fixing of 20mm dia.CP health Faucet with Flexible tube & angle cock wall hook complete Health Faucet. JAQ -ALD- CHR -579.bracket for Health Faucet. Inclusive,Angle Valve. JAQ - CON-059KN.	EACH	128.00		
416	20.7	Providing,Supply and fixing of 600 x 750 mm size, best quality mirror of approved make of 8mm thick with copper backing, fixed to 8 mm thick plywood sheet, CP hooks, CP screws etc. complete. (Modi glass)	NO'S	128.00		
417	20.8	Providing,Supply and fixing of CP brass towel ring of 150mm dia, with screws etc., complete. JAQ-ACN- 1121BN (Near Sink)	EACH	128.00		
418	20.9	Providing,Supply and fixing of 15mm CP Sink with swinging casted spout and wall flanges JAQ - (Kitchen Sink)	EACH	64.00		
419	20.10	Providing,Supply and fixing of approved make CP robe hooks at door back etc., complete. JAQ-ACN- 1191N	EACH	128.00		
420	20.11	Providing,Supply and fixing of approved make CP paper holder. JAQ -AHS-1553.	EACH	128.00		
421	20.12	Providing,Supply, fixing and testing of 850 mm x 510mm sink single bowl with drain board in 1.6 mm thick salem stainless steel AISI 304 of approved make confirm to is 13983 with choke stop strainer waste coupling, with, 40mm PVC waste pipe up to Nahani trap, etc., complete.Sink Nirali / EQ. Angle Valve. JAQ - CON-059KN.	EACH	64.00		
422	20.13	Providing,Supply & fixing of soap dish holder fixed to wall with CP screws etc complete. JAQ -ACN-1131N.	EACH	128.00		
423	20.14	Providing,Supply and fixing of approved make CP towel rail of 20mm dia. 600mm long fixed to wall with CP brass screws etc. complete. JAQ -ACN-1111NM.	EACH	128.00		
424	20.15	Providing,Supplying, fixing, testing and commissioning of 15mm dia CP Bib Cock (wall mounted model) for JWC with CP wall flange etc. Make: Hindware, Catalogue no-F100003	EACH	64.00		
	20.16	Providing,Supplying and fixing approved make ball valve PN 10 to suit the diameter including necessary fittings, cutting and threading to pipes etc.complete(LEHRY Make or eq.)				
425	a	20mm dia. (Screwed end)	EACH	128.00		
426	b	25mm dia. (Screwed end)	EACH	12.00		



427	c	32mm dia. (Screwed end)	EACH	2.00			
428	d	40mm dia. (Screwed end)	EACH	13.00			
429	e	50mm dia. (Screwed end)	EACH	2.00			
430	f	65mm dia. (Screwed end)	EACH	12.00			
431	g	80mm dia. (Screwed end)	EACH	2.00			
432	h	100mm dia. (Screwed end)	EACH	2.00			
20.17		Providing,Supplying and fixing approved make gun metal butterfly valve (PN 10)to suit the diameter including necessary fittings, cutting and threading to pipes etc.complete					
433	a	65mm dia. (Screwed end)	EACH	2.00			
434	b	80mm dia. Flanged end.	EACH	1.00			
435	c	100mm dia. Flanged end.	EACH	1.00			
436	d	150mm dia. Flanged end.	EACH	1.00			
21		HOT WATER Providing,Supply					
21.01		Providing,Supply and laying CPVC pipes and fittings for Hot & Cold water services as per the Specification of IS 15778 / ASTM - D 2846, and ASTM F493. from 15mm to 50mm and above 50mm pipes and fittings are as per ASTM F 438, ASTM F 439 & ASTM F 441.Socket type special solvent cement jointing, supplied by the company to be used for fitting connections, including fixing in walls ceiling, floors include for necessary excavation in all sorts of soils, chasing in the walls etc., refilling consolidation with the excavated earth & making bores in walls ceiling etc., and making good the chased surface in cement mortar and complete. When making a transition connection use metal threads fittings. (ASTRAL / SUPREEM)					
437	a	Internal toilet,kitchen,utility piping					
438	b	20mm dia. (HOT WATER) CTS SDR 11	RMT	1536.00			
439	c	20mm dia. (SOLAR WATER) CTS SDR 11	RMT	1020.00			
440	d	Shaft piping:20mm dia. (SOLAR WATER) CTS SDR 11	RMT	100.00			
441	e	25mm dia CPVC SDR 11	RMT	48.00			
442	f	32mm dia. CPVC SDR 11	RMT	80.00			
443	g	TERRACE PIPING:-20mm dia. (SOLAR WATER) CTS SDR 11	RMT	150.00			
444	h	32mm dia. CPVC SDR 11	RMT	80.00			
22		COLD WATER Providing,Supply					
22.01		Providing,Supplying, installing testing of approved make medium quality CPVC SDR 11 pipes manufactured to meet the requirements of ASTM-D 2846and higher dia of pipes (above 50 mm dia) in SCH 80 as per ASTM F441 and fittings as per ASTM F 439 with all specials such as bends, tees etc., including necessary cutting,solvent welding, fixing on walls, laying below ground etc.,The quoted rate shall include for chasing the walls, making bores in walls and making good the chased surfaces in cement mortar 1:3, etc. complete Internal toilet,kitchen,utility piping					
445	a	15mm dia. CPVC-SDR 11	RMT	384.00			
446	b	20mm dia. CPVC SDR 11	RMT	1300.00			
22.02		Shaft piping					
447	a	20mm dia. CPVC SDR 11	RMT	90.00			



448	b	25mm dia CPVC SDR 11	RMT	110.00		
449	c	32mm dia. CPVC SDR 11	RMT	110.00		
450	d	40mm dia. CPVC SDR 11	RMT	165.00		
451	e	50mm dia. CPVC SDR 11	RMT	20.00		
452	f	65mm dia. CPVC SH 80	RMT	5.00		
453	g	80mm dia. CPVC SH 80	RMT	2.00		
454	h	100mm dia. CPVC SH 80	RMT	1.00		
	22.03	Terrace piping				
455	a	20mm dia. CPVC SDR 11	RMT	10.00		
456	b	25mm dia CPVC SDR 11	RMT	120.00		
457	c	32mm dia. CPVC SDR 11	RMT	25.00		
458	d	40mm dia. CPVC SDR 11	RMT	120.00		
459	e	50mm dia. CPVC SDR 11	RMT	100.00		
460	f	65mm dia. CPVC SH 80	RMT	25.00		
461	g	80mm dia. CPVC SH 80	RMT	5.00		
462	h	100mm dia. CPVC SH 80	RMT	100.00		
	22.04	PRM from Sump to OHT (Cws)				
463	a	25mm dia. CPVC SDR 11	RMT	10.00		
464	b	40mm dia. CPVC SDR 11	RMT	120.00		
	22.05	Municipal water inlet				
465	a	40mm dia. CPVC SDR 11	RMT	60.00		
	22.06	Borewell water inlet				
466	a	50mm dia. CPVC SDR 11	RMT	60.00		
	22.07	Tanker water inlet				
467	a	100mm dia. CPVC SH80	RMT	15.00		
	22.08	Existing Source to UG sump				
468	a	50mm dia. CPVC SDR 11	RMT	600.00		
22.09		Providing,Supply and fixing in position, hot water pipe / Cold water pipe insulation of approved make with nitrile rubber / physically crosslinked polyolefin foam with factory applied reinforced foil. of density 25 kg /m 3 and thermal conductivity of 0.032W / mK @ 23 Deg C mean temp., Class-O as per BS 476 part 6 & 7, U.V. Resistant, water vapour permeability of 0.029mg.m / N.h as per ASTM - E 96, NFPA 90A & 90B compliant covered with FRP resin bonded 2 to 3mm thick for external (ROOF) as per specification. (½" to ¾" = 15mm, 1" to 2 ¼" = 20mm). Pipe running bellow ground externally are to be covered with pvc pressure pipe. (ALL ROOF, VERTICAL , HWS, pipes insulation only.) (THERMDYNE / EQ.)				
469	a	15mm nominal bore 20mm thickness	RMT	84.00		
470	b	25mm nominal bore 20 mm thickness.	RMT	250.00		
471	c	32mm nominal bore 20 mm thickness.	RMT	84.00		



472	22.10	Providing,Supply & fixing of electronic automatic water level controller Li - Mo - Con make with float switch of approved make as required by the site engineer. (wiring included 6 Core 0.75 sqmm / cat 6 cable with 25mm dia PVC conduit).	EACH	1.00			
	22.11	Providing,Supply & fixing puddle flange with GI pipe to under ground sumps as per design drawing.					
473	a	25mm	EACH	1.00			
474	b	32mm	EACH	3.00			
475	c	40mm	EACH	3.00			
476	d	50mm	EACH	2.00			
477	e	65mm	EACH	2.00			
478	f	75mm	EACH	2.00			
479	g	100mm	EACH	1.00			
480	h	150mm	EACH	1.00			
481	22.12	Providing,Supply, installation, testing and handing over of approved brand of solar water heating system (BIS approved under 12933 part -1) of 250 ltrs capacity collectors with all the necessary support stand etc.complete. (500 ltrs x4nos cells) SOLARISER / EQ.	EACH	8.00			
	22.13	Providing,Supply fixing and testing of storage vertical type water heater of approved make high rated pressure withstand capacity including all fittings & fixture inside, polypropylene cover non return valve, 1no. Gate valve all as per IS 2083-195, with 3 core heavy duty copper cable with 3 pin plug, automatic pressure release valve adjustable thermostat, thermal cutout, puf insulation, tested for 7Kg pressure, etc.complete, & bracket painted with two coats of enamel paints. (Inclusive of all fittings.) A.O.SMITH JAQUAR. OR EQ.					
482	a	15 ltrs Capacity (EWJ-15.) (Kitchen)	EACH	64.00			
483	b	25 ltrs Capacity (Toilets EWJ-25.)	EACH	64.00			
484	22.14	Providing,Supply and fixing of approved make 8 ltrs capacity per hr. R.O. plant 1 no. for drinking water, application with necessary accessories as per WHO standareds in complete. ZEROO - B OR EQ.	EACH	64.00			
485	22.15	Making "T" connection to the existing Bnqm water main with necessary works such as road cutting and making good of the road etc.complete. (excluding deposits)	EACH	2.00			
	22.16	Providing,Supply and fixing in position, the following GM non return valves of normex brand of rubberlined, including companion flanges, unions, bolts, nuts rubber gasket, etc., complete. LEHRY OR EQ.					
486	a	25mm dia. (Screwed end)	EACH	1.00			
487	b	40mm dia. (Screwed end)	EACH	1.00			
488	c	50mm dia. (Screwed end)	EACH	1.00			
489	d	65mm dia. (Screwed end)	EACH	1.00			
490	e	75mm dia. (Screwed end)	EACH	1.00			
491	22.17	Providing,Supply & fixing of M.S angle supports with 2 coats of paint and "U" ring clamp to be provided along with nuts & washers.	Kgs	3000.00			
	22.18	Providing,Supply and fixing of MS grip bolts with adjustable hanger rods with clamps for supporting the soil,waste,water & rain water lines in ceiling for supporting etc., complete					
492	a	M-10 size	NOS	300.00			
493	b	M- 12 size	NOS	300.00			
	22.19	Providing,Supply and fixing in position, the following "Y" Strainer with necessary unions, bolts,nuts etc complete. (Near OHT) LEHRY / EQ.					
494	a	50mm dia (Flanged end)	EACH	1.00			



495	b	40mm dia (Flanged end)	EACH	1.00			
	22.20	Providing,Supply and fixing of GM Ball Cock with heavy duty PVC float of approved make LEHRY / EQ.					
496	a	25mm dia.	EACH	1.00			
497	b	32mm dia.	EACH	1.00			
498	c	40mm dia.	EACH	1.00			
499	d	50mm dia.	EACH	1.00			
500	e	65mm dia.	EACH	1.00			
501	f	75mm dia.	EACH	1.00			
502	g	100mm dia.	EACH	1.00			
	22.21	Providing and fixing mosquito proof / vent / overflow brass coupling of an approved design.					
503	a	50 mm dia	Each	2.00			
504	b	65mm dia	Each	2.00			
505	c	80 mm dia	Each	4.00			
506	22.22	Providing,Supply and commissioning valve chamber size 600 x 600 x 450 deep in CM 1:4 over a bed of 100mm PCC 1:4:8 with inside and outside plastered smooth in CM 1:4 12mm thick.Providing,Supply and fixing of R.C.C.frame and cover. Water Meter.	EACH	1.00			
507	22.23	Providing,Supply and fixing of approved make water meter inside the chamber size 450x 450 x 450 deep in CM 1:4 over a bed of 100mm PCC 1:4:8 with inside and outside plastered smooth in CM 1:4 12mm thick with lockable frame and cover (wt 10kg)meter and chamber rate only. (Dashmesh / Lehary water meter.32mm dia.)	EACH	1.00			
508	22.24	Providing,Supply and commissioning of Domestic water Submersible PUMP of 440 V, 50 Hz 3phase with necessary gate valves, check valves, float valve etc., complete with suitable L & T starter. Delivering water from U.G sump to Overhead tank 7 lps each at 40 meters head. (the wiring shall be done by a separate agency). 1 Working + 1 stand by. GRUNDFOSS / EQ.NON RETURN VALVE,L&T STARTER	SET	1.00			
509	22.25	Providing,Supply and commissioning of rain water Submersible PUMP of 440 V, 50 Hz 3phase with necessary gate valves, check valves, float valve etc., complete with suitable L & T starter. Delivering water from U.G sump to WTP 1.8 lps each at 20 meters head. (the wiring shall be done by a separate agency). 1 Working + 1 stand by GRUNDFOSS / EQ.,NON RETURN VALVE,L&T STARTER	SET	1.00			
510	22.26	Providing,Supply & fixing of FRP manhole frame with cover to U.G.Sump & Rain watercollection sump. 600x600mm size (Heavy duty frame & cover). SFRC / EQ.	EACH	5.00			
511	22.27	WTP cosidering PSF,ACF and SOFTENER,FILTER FEED PUMP(BASED ON WATER REPORT FINAL COST WILL BE GIVEN)	SET	1.00			
	23	SEWERAGE					
	23.01	Providing,Supply and fixing PVC SWR (6kgf / cm2), TYPE 'B' pipes, conforming to IS 13592 - 92, and fittings conforms to IS 14735:1999, with self fit socketed with solvent cement joint fittings, for cancelled pipings, and ring fit type fittings for exposed to sun (piping, to take care of thermal expansion / contraction), including, offsets, doorbends, junctions, cowls, etc., ,complete. SUPREEM / EQ.					
512	a	INTERNAL TOILET a) 75mm dia.	RMT	670.00			
513	b	b) 110mm dia.	RMT	310.00			
514	c	SHAFT a) 75mm dia.	RMT	580.00			
515	d	b) 110mm dia.	RMT	580.00			
516	e	c) 63mm dia.	RMT	580.00			
517	f	STILT CEILING a) 75mm dia.	RMT	180.00			



518	g	b) 110mm dia.	RMT	180.00			
	23.02	Providing,Supply and fixing and testing PVC pressure pipes (10 kgf/sqcm) pipes conforming to IS 4985 : 2000 for waste line connection from wash basin, kitchen sinks to floor trap with solvent cement joints, including all the fitting, laid under floor. Concealed in wall etc., the work shall include wall chase and making good the same in cement mortar etc., complete. SUPREEM / EQ.					
519	a	a] 32mm ID.	RMT	50.00			
520	b	b] 40mm ID.	RMT	550.00			
521	c	c] 50mm ID.	RMT	90.00			
522	23.03	Providing,Supply, fixing and testing of PVC 50mm Nahani trap with CP grating and 50mm outlet with necessary connecting coupler , etc.complete with cement concrete chamber.(at balcony) SUPREEM / EQ.	EACH	128.00			
523	23.04	Providing,Supply, fixing and testing of PVC 100mm Floor Trap with CP grating and 75mm dia outlet with necessary connecting coupler, raiser etc. complete.for waste pipe.at toilet SUPREEM / EQ.	EACH	192.00			
	23.05	Excavation in all sorts of soil including laterite for laying pipes upto 250mm dia including forming bottom surfaces to the required level of gradients, returning,filling of earth all round the pipes in layers of 150mm thick watering, consolidation, disposing the surplus material within the site, as directed by the engineer-in-charge.					
524	a	Depth upto 0.6 mtrs.to 1.5 mtrs.	CUM	70.00			
525	b	Depth from 1.5 mtrs and above	CUM	50.00			
	23.06	Providing,Supply and fixing under ground ECO drain uPVC pipes,external works only solid walls drainage pipe as per IS 16098, as specified, jointing with cement solvent, laid under floor, & rendering the same in cement mortar etc., complete. in all respect including testing of complete installation.. (External I.C. to I.C.) SUPREEM / EQ.					
526	a	75 mm dia. (Stiffness class SN4)	RMT	16.00			
527	b	110 mm dia. (Stiffness class SN4)	RMT	30.00			
528	c	160 mm dia. (Stiffness class SN4)	RMT	100.00			
529	d	250 mm dia. (Stiffness class SN4)	RMT	80.00			
	23.07	Construction of conical manhole with 230mm best quality table moulded bricks in CM 1:6, 500mm dia at top and 1200mm dia at bottom, over a bed of 250mm thick PCC 1:4:8, walls plastered smooth inside and outside in CM 1:6 for 20mm thick. The rate shall include for necessary excavation in all sorts of soil including benching and channelling in PCC 1:2:4. Providing,Supply and fixing Heavy duty SFRC R.C.C. frame and cover and steps etc., & complete. for standard manhole.					
530	a	a] Depth above 1.51m up to 2.5 mtr	EACH	2.00			
531	23.08	Providing and fixing uPVC (P-Trap) as gully trap complete with C.I. grating brick masonry chamber with bricks of class designation 75 and water tight C.I. cover with frame of 300 x 300 mm size (inside) the weight of cover to be not less than 4.5 kg and frame to be not less than 2.70 kg as per specifications. SUPREEM / EQ.	EACH	8.00			
	23.09	Construction of inspection chambers with 230mm best quality approved TM bricks, in CM 1:4, over a bed of 100mm thick PCC 1:4:8, wall plastered smooth inside, in CM 1:3, with necessary excavation in all type of soil, benching and channelling in PCC 1:2:4. Providing,Supply and fixing of SFRC RCC frame and cover (Medium Duty)					
532	a	600 mm x 600 mm	EACH	9.00			
	23.10	Providing and laying cement concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40mm nominal size) around for SW / RCC / uPVC pipes including bed concrete as per standard design. (minimum of 150 mm thick all around the pipe.) if depth of the pipe less than 750mm to bottom of pipe.					
533	a	250mm dia.	RMT	20.00			
534	b	300mm dia.	RMT	20.00			
	24	RAIN WATER SERVICE					



	24.01	Providing,Supply, fixing and testing of PVC SWR pipes 4kg f / sq.cm, (TYPE A) as per IS 13592 for rain water disposal from terrace, rate to include necessary specials like shoes and bends, laid under floor / on walls, with necessary clamps, including & foundation on wall bores & rendering the same in cement mortar etc., and complete. (160mm and above 6kgf / cm ² - IS 4985 -2000 pipe shall be used.) SUPREEM / EQ.				
535	a	a] 75mm OD.	RMT	900.00		
536	b	b] 110mm OD.	RMT	510.00		
537	c	c] 160mm O.D.	RMT	20.00		
538	d	d] 200 mm O.D (6kgf / cm ² -IS 4985-2000)	RMT	10.00		
	24.02	Providing,Supply, fixing of rain water outlet grating side wall mounted type as shown in the drawing. The rate shall include of fixing with all the necessary materials. SUPREEM / EQ.				
539	a	a] 75mm	EACH	128.00		
540	b	b] 110mm	EACH	8.00		
541	c	c] 160mm	EACH	2.00		
	24.03	Providing and constructing of brick masonry Catch Basin of internal clear dimension as mentioned below by using first class wire cut bricks 230 mm thick wall in cement mortar joints in 1:4, over CC 1:3:6 bed 150 mm thick using 40 down graded aggregate with 75mm offset around, External plastering with CM 1:4 mixing water proofing compound as per manufacturers specs, internal plastering with CM 1:4 mixing water proofing compound as per manufacturers specs, Necessary benching and hunching with CC 1:2:4 20 down graded aggregate, CI steps each weighing not less than 1.0 kg at 300 mm c/c for full depth of chamber, Necessary earth work excavation and refilling, Curing and consolidating of concrete earth and providing CC 1:1:4 100mm thick coping using 20 down graded aggregate at the top of brick work to revive cover as per drawing. Precast CC cover will be paid seperately.				
542	24.04	Inside size of 400 x 400mm & depth not exceeding 450 mm including providing 600 x 600mm RCC cover with MS L angle frame of size 50 x 50 x 6mm thick.	EACH	2.00		
543	24.05	Inside size of 600x 600mm & depth not exceeding 750 mm including providing 600 x 600mm RCC cover with MS L angle frame of size 50 x 50 x 6mm thick.	EACH	8.00		
	24.06	Excavation in all sorts of soil including laterite for laying pipes upto 450mm dia including forming bottom surfaces to the required level of gradients, returning, filling of earth all round the pipes in layers of 150mm thick watering, consoli dation, disposing the surplus material within the site, as directed by the engineer - in - charge.				
544	a	Depth upto 0.75 mtrs.	Cu.m	180.00		
545	b	Depth from 0.75mtrs. to 1.5 mtrs.	Cu.m	50.00		
546	24.07	Providing,Supply fixing and commissioning of high density polythylene rainy dual intensity RWHfilter FL-300, wit bypass valve, S.S.304 Screen,inlet, outlet, and drain etc.complete.,ANYA ENTERPRISES OR EQ.	EACH	8.00		
547	25	Constructing storm water recharging pits in pre cast rings laid to a depth of minimum 3.0 mtrs , with 300 mm thick sand cushion externally , internally filled with coarse aggregate ranging from 80 mm to 40 mm in equal proportions with pre cast slab at top able to lift during maintenace , provisions of drain connections all leads and lifts INCLUDING EXCAVATION AND BACKFILLING AS REQUIRED BY THE SITE CONDITION, complete. Diameter of recharging pit 2000 mm clear internal space , aggregates to be filled to a height of 450 mm with borewell deep recharge.	Nos.	4.00		
	26	Providing,Supply and fixing under ground Nu drain uPVC pipes,external works only solid walls drainage pipe as per IS 15328:2003,as specified,joining with cement solvent, laid under floor, & rendering the same in cement mortar etc., complete. in all respect including testing of complete installation.. (External R.W.C. to R.W.C.) SUPREEM /EQ.				
548	a	75 mm dia. (4 KN / M2 Stiffness class)	RMT	16.00		
549	b	110 mm dia. (4 KN / M2 Stiffness class)	RMT	16.00		
550	c	200 mm dia. (4 KN / M2 Stiffness class)	RMT	80.00		
		FIRE FIGHTING WORKS				
27		FIRE TERRACE BOOSTER PUMP				



551	27.01	Providing,Supply, erection, testing & commissioning of electrical motor driven Booster pump of Monoblock type capable to deliver 900LPM at 35MWC.The pump shall be coupled to TEFC motor of suitable HP with speed of 2900RPM and complete set shall mounted on common base frame. The quoted rate shall includes providing & fixing of RCC foundation(as recommended by manufacturer) and Foundation bolts etc. with Providing,Supply, erection, testing and commissioning of Auto Start Panel with emergency Start / Stop feature, weather proof type for Booster pump at terrace level.	Nos.	1.00			
	27.02	1100 V GRADE POWER / CONTROL CABLES Providing,Supplying, laying, testing & commissioning of FRLS,PVC outer sheathe, steel armored, aluminum / copper conductor, 1100v grade power cables with glands etc. The cables shall be laid in tray / Hume pipe / in trenches/on walls/ floor etc. as required. For cables laid out door the rate shall include earth excavation providing brick and sand protection, refilling and compacting the earth. The rate shall excludes tray & Hume pipes. The minimum size of the cables shall as mentioned below,					
552	a	3.5C x 50 sq.mm for main pumps	Rmt	20.00			
553	b	4 C x 16 Sqmm. Jockey pumps	Rmt	50.00			
554	c	12 C x 2.5 Sqmm. Diesel engines	Rmt	20.00			
555	d	2 C x 2.5 Sqmm. For instrumentation	Rmt	20.00			
556	e	3 C x 4.0 Sqmm. For start / stop push buttons	Rmt	20.00			
557	27.03	CABLE TRAY -Providing,Supplying and fixing of perforated G.I. sheet cable tray with necessary angle iron suspension supports, anchor fasteners etc. complete. Maximum height of suspension shall not exceed 150 mm. Size of the tray shall be suitable for laying the above mentioned cables.	Rmt	50.00			
	27.04	Providing,Supplying, installing, testing and commissioning of G.I. Pipes confirming to IS 1239 Pt - I Heavy grade with painting, suitable type of supports, anchor fasteners, bolts nuts (Galvanized), clamps, "U" bolt, malleable specials such as Reducers, Tees, elbows, flanges. Including cutting, Welding, fixing in / on walls, ceiling by using suitable supports etc, as per drawings. The quoted rate shall also include for chasing / chipping walls, making bore holes in walls / floor and making them good with filler material and finished in cement mortar etc. complete.					
558	a	150mm nominal dia	Rmt	20.00			
559	b	100mm nominal dia	Rmt	40.00			
560	c	80mm nominal dia	Rmt	20.00			
561	d	50mm nominal dia	Rmt	20.00			
	27.05	Providing,Supplying, installing, testing and commissioning of CAST Steel Non-return valves as per IS:5312 (PN 16) swing check type with required flanges, nuts, bolts and gaskets etc. complete.					
562	a	200 mm nominal dia	Nos.	1.00			
563	b	100 mm nominal dia	Nos.	1.00			
564	c	150 mm nominal dia	Nos.	1.00			
565	d	80 mm nominal dia	Nos.	1.00			
566	e	50mm nominal dia	Nos.	1.00			
	27.06	Providing,Supplying, Installing, testing and commissioning CI butterfly valves as per BS 5155 (PN 16) slim seal standard lever operated type with required flanges, nuts, bolts etc. complete. The valve shall be fitted with Supervisory switch for monitoring.					
567	a	200mm nominal dia	Nos.	1.00			
568	b	150mm nominal dia	Nos.	1.00			
569	c	100mm nominal dia	Nos.	2.00			



570	d	80mm nominal dia	Nos.	1.00			
571	27.07	Providing,Supplying, installing and commissioning C.I. flanged "Y" type Strainer with SS mesh, suitable flanges, nuts, bolts, gaskets etc. complete.-100mm dia.	Nos.	1.00			
	28	HYDRANT SYSTEM					
	28.01	Providing,Supplying, installing, testing and commissioning of G.I. Pipes conforming to IS 1239 Pt - I Heavy grade with painting, suitable type of supports (Shall be fabricated by M.S. Channel / Angle / Flat for above 50 mm dia), anchor fasteners, bolts nuts, clamps, "U" bolt, malleable specials such as Reducers, Tees, elbows, flanges. Including cutting, Welding, fixing in / on walls, ceiling by using suitable supports etc, as per drawings. The quoted rate shall also include for chasing / chipping walls, making bore holes in walls / floor and making them good with filler material and finished in cement mortar etc. complete.					
572	a	150mm nominal dia (external area)	Rmt	30.00			
573	b	100mm nominal dia(internal STILT and vertical)	Rmt	110.00			
	28.02	Providing,Supplying, installing, testing and commissioning of G.I. Pipes conforming to IS 1239 Pt - I Heavy grade with suitable type of supports, malleable specials such as Reducers, Tees, elbows, flanges. Including cutting, Welding as per drawings. Pipe laid below ground .The rate quoted should e included with anticorrosive treatment with 4 mm thick polymer corrosion resistant tape as per IS 10221, overlap shall be 15mm minimum.					
574	a	150 mm nominal dia	Rmt	15.00			
575	b	100 mm nominal dia	Rmt	15.00			
	28.03	Providing,Supplying, Installing, testing and commissioning CI butterfly valves as per BS 5155 (PN 16) slim seal standard lever operated type with required flanges, nuts, bolts etc. complete. The valves shall be fitted with Supervisory switch for monitoring.					
576	a	150 mm nominal dia	Nos.	2.00			
577	b	100 mm nominal dia	Nos.	2.00			
578	28.04	Providing,Supplying, erecting and commissioning of Landing Hydrants comprising of the following in the Fire duct;Single headed hydrant valve as per IS 5290, made of SS with 63 mm dia instantaneous outlet of 80 mm dia flanged inlet ,Blank caps , chain and hand wheels etc complete.2 lengths of 15 M long, 63mm dia RRL hose orTharmo hose with instantaneous couplings and Hoses shall be stored in side the hose cabinet.1 no. Gun metal short branch pipe with nozzleHose reel drum of swinging type with 19mm dia Rubber braided hose of 40M. length with Gate valve (upstream) and Shut off nozzle, complete..Fire duct Shutter fabricated out of M.S. sheet and frame, door shall be 900mm x 1200 mm min. & fixed with 4 mm thick Glass, suitable Rubber beading and Locking arrangement. Quoted rate shall be includes all fasteners etc, and complete shutter shall be powder coated of approved color both inside and out side.	Nos.	20.00			
579	28.05	Providing,Supplying, installing and commissioning of fire brigade inlet connection of 4 way with 4 nos. 63 mm dia. built - in Gun metal Non- return valves instantaneous coupling type arranged on 150 mm dia. Pipe manifold and connected to wet riser main as well as to Fire water tank. Quoted rate shall be included with C.I. Butterfly valve, C.I. Non-return valve and M.S. cabinet of suitable size with mounting supports etc. complete.	Nos.	2.00			
580	28.06	Providing,Supplying, installing and commissioning of fire brigade inlet connection of 2 way with 2nos. 63 mm dia. built - in Gun metal Non- return valves instantaneous coupling type arranged on 150 mm dia. Pipe manifold and connected to Fire water tank. Quoted rate shall be included with C.I. Butterfly valve, C.I. Non-return valve and M.S. cabinet of suitable size with mounting supports etc. complete.	Nos.	1.00			
	28.07	Providing,Supplying, installing, testing and commissioning of SS finished Ball valves with fittings of screwed end type.					
581	a	25mm dia.	Nos.	2.00			
582	b	40 mm dia.	Nos.	2.00			
583	c	Providing,Supplying and fixing approved make 25mm dia. automatic air release valve with unions etc. complete.	Nos.	2.00			
	29	FIRE EXTINGUISHERS					
	29.01	Providing,Supplying, installing and commissioning Portable Fire extinguishers of following type & capacity.					



584	a	ABC type fire extinguisher of 2 kgs. Capacity of stored pressure filled in brand new seamless cylinder with powder coated finish, made out of Manganese steel, with wheel type valve, discharge nozzle, bend & horn, wall mounting bracket etc. complete, conforming to IS: 2878.(switch room and mechen 4)	Nos.	67.00			
585	b	ABC type fire extinguisher of 6 kgs. Capacity of stroed pressure filled in brand new seamless cylinder with powder coated finish, made out of Manganese steel, with wheel type valve, discharge nozzle, bend & horn, wall mounting bracket etc. complete, conforming to IS: 2878.(for cars area35+staicase 21 +trasfamar and DG 2)	Nos.	18.00			
586	c	Fire buckets round bottom type enamel painted, white inside & Red out side and Letter "FIRE" in black out side and handle with mounting bracket.	Nos.	8.00			
587	d	Fire bucket stand fabricated by MS angles to install 2 Nos. of buckets.	Nos.	4.00			
	29.02	SIGNAGES -Providing and installing in position the following type of sign boards made out of 3mm thick "Opaque" PVC foam board with computer cut, PVC non-reflective self adhesive vinyl painted foam board, complete with mirror fasteners.					
588	a	Signage with printed "IN CASE OF FIRE, USE STAIRS UNLESS INSTRUCTED OTHERWISE" of 1.5cm height letters in red with white back ground. The size of the board shall be 25cm x 30 cm and shall be fixed at the height of 2 mts. from finished floor near Manual call points.	Nos.	20.00			
589	b	Floor identification signage (ie, GROUND FLOOR ...etc.) at each stair enclosure on every floor, indicating the floor number in words, lettering size shall be 7.5 cm with contrasting color from back ground. Size shall be 15cm x 60cm.	Nos.	20.00			
	29.03	Providing and fixing in position the signages " FIRE ORDER" it should contain the following matter on 3mm thick "Opaque" PVC foam board of computerized cut, PVC non-reflective self adhesive vinyl painted foam board of 3' x 4'.					
590	a	A) ALERT THE SECURITY AT SECURITY ROOM BY ACTUATING MANUAL CALL POINT LOCATED AT STRATEGIC LOCATIONS.B) EVACUATE THE OCCUPANTS BY USING FIRE EXITS AND EMERGENCY EXITS ONLY AND ASSEMBLE AT VARIOUS ASSEMBLY POITS.C) IF POSSIBLE TRY TO EXTINGUISH THE FIRE BY USING NEAREST / SUITABLE PORTABLE EXTINGUISHER OR WATER FROM NEAREST WET RISER.D) BE CALM AND DO NOT GIVE ANY ROOM FROM PANIC, WALK, DO NOT RUN.E) IF YOU ENCOUNTER SERIOUS DIFFICULTY IN EVACUATION, FLAT AND TRY TO ATTRACT ATTENTION OF RESCUE TEAM.	Nos.	1.00			
591	b	ACTION BY SECURITY/RECEPTION UPON RECEIPT OF INFORMATION THROUGH FIRE ALARM OR FIRE DETECTORS OR BY USING PUBLIC ADDRESS SYSTEM.A) ALERT THE OCCUPANTS BY USING PUBLIC ADDRESS SYSTEM.B) INFORM FIRE CONTROL THROUGH ANY ONE OF THE FOLLOWING PHONE NUMBERS: 101 / 2251780 / 2251781 / 2251782.C) REFER EVACUATION PLAN FROM EVACUATING STANDARD PEOPLE.D) GUIDE THE FIRE FORCE, ON THEIR ARRIVAL TO THE SEAT OF FIRE.E) IN CASE OF THE CASUALTIES, CALL AMBULANCE BY DIALLING NUMBER....." FIRE FIGHTING AGNECY ----- PHONE : -----	Nos.	1.00			
	30	AUTOMATIC SPRINKLER SYSTEM					
	30.01	Providing,Supplying, installing, testing and commissioning of G.I. Pipes conforming to IS 1239 Pt - I Heavy grade with painting, suitable type of supports (Up to 80mm hightech support and above MS bracket Support), anchor fasteners, bolts nuts , clamps, "U" bolte, malleable specials such as Reducers,Tees, elbows, flanges. Including cutting, Welding, fixing in / on walls, ceiling by using suitable supports etc, as per drawings. The quoted rate shall also include for chasing / chipping walls, making bore holes in walls / floor and making them good with filler material and finished in cement mortar etc. complete.					
592	a	150mm nominal dia	Rmt	20.00			
593	b	100mm nominal dia	Rmt	40.00			
594	c	80mm nominal dia	Rmt	25.00			
595	d	65mm nominal dia	Rmt	30.00			
596	e	50mm nominal dia	Rmt	30.00			
597	f	40mm nominal dia	Rmt	20.00			
598	g	32mm nominal dia	Rmt	45.00			
599	h	25mm nominal dia	Rmt	100.00			
	30.02	Providing,Supplying, installing, testing and commissioning of Gun metal chrome finished Ball valves with fittings of screwed end type.					



600	a	25 mm dia	Nos	2.00			
601	b	50 mm dia	Nos	2.00			
	30.03	Providing,Supplying, installing, testing and commissioning CI butterfly valves (PN 16) as per BS 5155 slim seal standard lever operated type with required flanges, nuts, bolts etc. complete.The valve shall be fitted with supervisory switch for monitoring.					
602	a	100mm dia	Nos	2.00			
	30.04	Providing,Supplying, installing, testing and commissioning conventional Sprinkler quartzoid bulb type with 15mm screwed end connection of 68 deg. C. temperature rating,K 80 and orifice shall not be less than 6mm.Sprinklers shall be UL Listed / FM approved with Chrome finished.					
603	a	Pendent sprinkler	Nos	54.00			
604	b	Upright	Nos	2.00			
605	c	Side wall	Nos	2.00			
606	30.05	Providing,Supplying, installing, testing and commissioning flow switch on sprinkler distribution header on each floor nd shall be connected to fire alarm panel through cable. Cable shall be measured seperately.	Nos.	2.00			
	31	PUBLIC ADDRESS SYSTEM					
607	31.01	Providing,Supplying, installing, testing and commissioning of 6W of speakers with suitable mounting base & connected associated works & accessories etc., complete.	Nos	20.00			
608	31.02	Providing,Supplying, installing, testing and commissioning of 15 W 2 way talk back speakers and suitable mounting base & connected associated works & accessories etc., complete.	Nos	1.00			
609	31.03	Providing,Supplying, installing, testing and commissioning solid state Amplifier RMS out put in rack, including necessary control wires, jocks etc. complete.a) 250 W amplifier	Nos	1.00			
610	31.04	Providing,Supplying, laying, testing and commissioning of 40 strand, 1.5 Sq.mm twin twisted flexible copper conductor cable including end terminations with lugs etc. complete. The quoted rate should include necessary junction boxes, cut-outs for incoming, outgoing of cables & connected associated works & accessories, etc. complete.	Rmt	200.00			
	31.05	Providing,Supply and laying of PVC / MS conduit embedded in slab / run on wall / wall chases / on false ceiling etc., will pull wires and necessary conduit accessories such as junction boxes, bends, coupling etc., complete as per drgs & connected associated works complete.					
611	a	a) 19 mm dia MS conduit	Rmt	200.00			
612	b	b) 25 mm dia PVC conduit	Rmt	150.00			
	32	CONVENTIONAL FIRE ALARM SYSTEM					
613	a	Providing,Supply, erection, testing and commissioning of Micro Processor-controlled Main Fire Alarm Control Panel to monitor zone panels located in all the all blocks with dual stage alarm facilities, hooter, fire / fault indicators, audio-visual signals, battery, battery charger, central processing unit, video display unit, printer & connected associated works & accessories etc. complete in all respects as per manufacture specification. a) 2 zone panel	Nos.	1.00			
	33	ELECTRONICS HOOTERS:					
614	a	Providing,Supply, installation, testing and commissioning of Conventional type electronic hooter as per manufacture specification & connected associated works & accessories etc. complete. (without volume control unit)	Nos.	20.00			
	34	MANUAL CALL POINTS:					
615	a	Providing,Supply, installation, testing and commissioning of Conventional type manual call points / pushbutton stations as per manufacture specifications & connected associated works & accessories etc. complete..	Nos.	20.00			
	35	Repeater Control Panel (RC)					
616	a	To give audio visual alarms / indications for both fire & fault with same number of zones as in Main control panel & connected in parallel to MCP & 4 zones, connected associated works & accessories etc. complete..	Nos.	1.00			
617	36	Liasioning Works Fire Fighting	LS	1.00			
		ELECTRICAL WORKS					
	37	ELECTRICAL External					



618	37.01	11kV YARD AND TRANSFORMER WORKS:Double Pole Structure @ Tapping Supply, store, erection, testing and commissioning of RCC DP Structure and associated equipment like GOS, lightning arrests, DOL cutouts, isolators, insulators as per requirement of Electricity Board, The rate shall be inclusive of foundation for poles.	Each	1.00		
619	37.02	11 Mtrs SPUN Pole Structure @ near site Supply, store, erection, testing and commissioning of RCC 11 Mtrs SPUN POLE Structure and associated equipment like 1 sets GOS, lightning arrests, DOL cutouts, isolators, insulators as per requirement of Electricity Board, The rate shall be inclusive of foundation for poles.	Each	1.00		
620	37.03	HT LOAD BREAK SWITCH :-Supply, fabricate Compact HT Isolator (at KPTCL authorised fabricator)M.S. Sheet steel, free standing weather proof,outdoor type, 11 kv 350 MVA, 630 Amps ISOLATOR with fuse to the requirement of KPTCL, The quoted rate shall be inclusive of foundation and concrete plinth.	Set	1.00		
621	37.04	Transformer with OFF LOAD TAP Changer Supply, store, erection, testing and commissioning of 500 kVA, 11 kv/433 V Cooper wound 5 *Star OFF load (+ or - 5%) outdoor type transformer complete with accessories as per specification to be mounted on 1000 mm height pedestal.	Each	1.00		
	38	HT Cable				
622	38.01	Supply, store, laying, testing and commissioning of 11 kv XLPE cable as per I S specification. The rate quoted shall be for laying in calbe trenches, pipes, etc.For burried cable, the excavation work will be included under the heading "Civil works for Outdoor Cable Laying".3 Core x 95 Sq.mm XLPE Cable	Mtrs.	50.00		
	38.02	HT Cable End Termination:Supply and making end termination for 11 kv 3 core XLPE cable - heat shrinkable termination kit.				
623	a	For 95 Sq.mm (outdoor)	Each	2.00		
624	b	For 95 Sq.mm(Indoor)	Each	5.00		
625	38.03	Yard Fencing & Jelly Spreading etc.Providing 2200 mm height chain link fencing consisting of 50x50x6 MS angle vertical post 2200 mm high (spacing not exceeding 3.0 Mt) 50x50x6 mm MS angle 2800 mm long branching struts (in both directions) for every fifth post (and at change of directions of the fence) and 10 Gauge, G I chain link mesh 50x50 mm fully stretched and secured to MS bolts, nuts and washers spaced at 150 mm (min) using 25x5 mm MS flat cover strip, 170 mm long bottom 75 mm end of MS verticals and bracing struts to be split and 400 mm embedded in 400x400x500 deep cement cover concrete 1:3:6 including necessary welding and or bolted connections of MS horizontal and branching/struts to vertical posts. Excavation cement concrete and painting one coat of primer and two coats synthetic enamel paint to all exposed faces of steel work and chain link fencing measured net area fencing between external faces of horizontal members.	Sq.mt.	60.00		
626	38.04	Extra over BOQ item no.38.03 above for providing one gate 2 Mtrs (Double Door). wide, side hung to match the chainlink fence including necessary hinges, locking arrangement etc.complete.	Each	2.00		
627	38.05	Supply & spreading 25mm nominal size stone & depth 100 mm aggregate as directed, including levelling and compaction of yard (voids not considered for measurement)	Cu.Mtr.	5.00		
	38.06	EXTENTION OF 11 KV LINE FROM THE EXISTING FEEDER Supply, erection including required items / civil works				
628	a	RCC pole 9M 145kg WL	Nos.	20.00		
629	b	Horizontal cross arm with clamps, HTST supports ,bolts, nuts and washers for RCC poles	Set	20.00		
630	c	11kV Pin insulator with GI pins	No	75.00		
631	d	45 kN Disc Insulator	No	24.00		
632	e	Guy set complete	sets	6.00		
633	f	Rabbit ACSR	per km	1.50		
634	g	PG clamps for Rabbit conductor	no	32.00		
635	h	Spiral Earth Electrode	no	20.00		
636	i	EG strirups with GI wire lacing	set of 2nos	20.00		
637	j	Concreting materials for guy sets with out cement	no	20.00		



638	k	Caution / Danger Board	no	10.00			
639	l	Anti - Climbing Device (12mtrs / 1 kg G.I. Barbed Wire) Lumpsum	no	20.00			
640	n	Concreting materials to RCC pole 1:2:4 CC	no	20.00			
	38.07	MEDIUM VOLTAGE SWITCH BOARDS:-Supply, store, erection, testing and commissioning of 415 Volts, 3 Phase, 50HZ switchboards/ panels/PDBs as per specification and as per schematic drawing complete as required. Erection rate rate shall include base channel, grouting/grip bolts etc.					
641	a	Metering Panel -1(as per drg. No PA-KA-CISF-SLD-01).	Each	1.00			
642	b	Metering Panel -2(as per drg. No PA-KA-CISF-SLD-01).	Each	1.00			
643	c	DG Distribution Panel (as per drg. No PA-KA-CISF-SLD-01).	Each	1.00			
644	d	APFC PANEL - 1 & 2(as per drg. No PA-KA-CISF-SLD-01).	Each	2.00			
645	e	Utility PANEL (as per drg. No PA-KA-CISF-SLD-01).	Each	1.00			
646	f	Lift Panel - 1 & 2(as per drg. No PA-KA-CISF-SLD-01).	Each	2.00			
647	g	LT KIOSK (as per drg. No PA-KA-CISF-SLD-01).	Each	1.00			
	39	FACTORY-BUILT MCB DISTRIBUTION					
	39.01	BOARDS:-Supply, store, erection, testing and commissioning of MCB Distribution Boards, wall-mounted (either surface or recessed type). The erection rates shall include fixing of DB on wall including supply of all fixing accessories, civil works etc. space provision shall be made for mounting ELCB in the incomer MCB. The rate shall be same for any combination of outgoing.DOUBLE DOOR TYPE - With 6A to 32A C- CURVE MCBsHorizontal or Vertical type TPN DB					
648	a	4-Way TPN DB with 40 amps TPN MCB incomer and 12 Nos. 1-Pole MCB outgoing.	Each	1.00			
649	b	6-Way TPN DB with 63 Amps TPN MCB incomer and 18 Nos. 1-Pole MCB outgoing.	Each	2.00			
650	c	8-Way TPN DB with 63 Amps TPN MCB incomer and 24 Nos. 1-Pole MCB outgoing.	Each	1.00			
651	d	MCB DB Accessories :4-pole Residual current circuit breaker (RCCB) with normal current rating of 32 to 63A and sensitivity of 100 mA.	Each	5.00			
	39.02	POWER AND CONTROL CABLES:-Supply, laying & testing of 1.1KV Grade XLPE insulated,aluminium conductor steel armoured power cables as per IS specification. The rates quoted shall be for laying in trays, cable trenches (indoor and outdoor), pipes, etc. For burried cables the excavation work will be included under the heading civil works for outdoor cable laying.					
652	a	3.5 Core x 400 Sqmm AYFY Cable (XLPE)	Mtr.	200.00			
653	b	3.5 Core x 300 Sqmm AYFY Cable (XLPE)	Mtr.	50.00			
654	c	3.5 Core x 240 Sq. mm AYFY Cable (XLPE)	Mtr.	60.00			
655	d	3.5 Core x 185 Sq. mm AYFY Cable (XLPE)	Mtr.	75.00			
656	e	3.5 Core x 150 Sq. mm AYFY Cable (XLPE)	Mtr.	25.00			
657	f	3.5 Core x 120 Sq. mm AYFY Cable (XLPE)	Mtr.	50.00			
658	g	3.5 Core x 95 Sq. mm AYFY Cable (XLPE)	Mtr.	25.00			
659	h	3.5 Core x 70 Sq. mm AYFY Cable (XLPE)	Mtr.	50.00			
660	i	3.5 Core x 50 Sq. mm AYFY Cable (XLPE)	Mtr.	25.00			
661	j	3.5 Core x 35 Sq. mm AYFY Cable (XLPE)	Mtr.	25.00			



662	k	4 Core x 25 Sq. mm AYFY Cable (XLPE)	Mtr.	250.00			
663	l	4 Core x 16 Sq. mm AYFY Cable (XLPE)	Mtr.	200.00			
664	m	4 Core x 10 Sq. mm AYFY Cable (XLPE)	Mtr.	150.00			
665	n	4 Core x 10 Sq. mm Cable (XLPE) copper armoured	Mtr.	50.00			
666	o	4 Core x 6 Sq. mm Cable (XLPE) copper armoured	Mtr.	50.00			
667	p	4 Core x 4 Sq. mm Cable (XLPE) copper armoured	Mtr.	50.00			
668	q	4 Core x 2.5 Sq. mm Cable (XLPE) copper armoured	Mtr.	125.00			
669	r	4 Core x 1.5 Sq. mm Cable (XLPE) copper armoured	Mtr.	25.00			
	39.03	Civil works for outdoor Cable Laying :Preparation of outdoor cable trenches including excavation, back filling, sand filling both bottom/top, cable tiles/bricks, compaction etc., as per specification, of the following sizes.					
670	a	Trench of width 750mm & depth 1000mm.	Mtr.	50.00			
671	b	Trench of width 450mm & depth 750mm.	Mtr.	100.00			
672	c	Trench of width 300mm & depth 600mm.	Mtr.	250.00			
	39.04	Cable End Termination :Supply and providing the end terminations with copper cable lugs, Double/single compression brass cable glands, taping, crimping, gland and armour earthing, etc. Complete as required.Including 120 Sqmm and above cable Shell be Double compression					
673	a	3.5 Core x 400 Sqmm Cable (XLPE)	Each	24.00			
674	b	3.5 Core x 300 Sqmm Cable (XLPE)	Each	4.00			
675	c	3.5 Core x 240 Sq. mm Cable (XLPE)	Each	4.00			
676	d	3.5 Core x 185 Sq. mm Cable (XLPE)	Each	8.00			
677	e	3.5 Core x 150 Sq. mm Cable (XLPE)	Each	4.00			
678	f	3.5 Core x 120 Sq. mm Cable (XLPE)	Each	10.00			
679	g	3.5 Core x 95 Sq. mm Cable (XLPE)	Each	2.00			
680	h	3.5 Core x 70 Sq. mm Cable (XLPE)	Each	6.00			
681	i	3.5 Core x 50 Sq. mm Cable (XLPE)	Each	6.00			
682	j	3.5 Core x 35 Sq. mm Cable (XLPE)	Each	4.00			
683	k	4 Core x 25 Sq. mm Cable (XLPE)	Each	20.00			
684	l	4 Core x 16 Sq. mm Cable(XLPE)	Each	20.00			
685	m	4 Core x 10 Sq. mm Cable (XLPE)	Each	30.00			
686	n	4 Core x 6/10 Sq. mm Cable (XLPE) copper armoured	Each	12.00			
687	o	4 Core x 4 Sq. mm Cable (XLPE) copper armoured	Each	10.00			
688	p	4 Core x 1.5/ 2.5 Sq. mm Cable (XLPE) copper armoured	Each	10.00			
689	39.05	Trench less drilling to lay the HT/LT underground cable across Road ,The drilling will be to a depth upto 1.2 mtr below ground level including ,200mm Dia HDPE Pipe	Mtr.	30.00			



	40	SOCKET OUTLETS				
		Industrial Type :Supply, erection, testing and commissioning of factory made metal clad totally enclosed with cast aluminium housing with industrial socket and plug top (all switches & sockets shall be housed in painted MS boxes). The erection rate shall include supply of angle iron frame work and fixing accessories such as grip bolts/grouting etc. 20 Amps, 3-pin single phase industrial socket with plug,top, controlled by 20 Amps 2P MCB.	Each	1.00		
690	40.02	32 Amps 5 pin (440V) three phase industrial socket with plug top controlled by 32 Amps 3 pole MCB.	Each	1.00		
691	40.03	Commercial Type :Supply, erection, testing and commissioning of power points by providing following switches/sockets mounted flush on to the furniture partition wall or fixed to surface or recessed boxes with all fixing and wiring accessories.	Each	20.00		
	41	Moduler Switches & Sockets				
	41.01	6/16 Amps, 6-pin (250Volts) single phase universal socket with 16 Amps single pole switch including recess mounted MS box. The pin configuration shall be round type.				
692	a	6 Amp 3-pin (250Volts) single phase commercial socket with 5 Amp, 5P switch including recess mounted MS box	Each	15.00		
693	b	20 Amp 5-pin (250Volts) single phase commercial socket with 20 Amp, DP switch including recess mounted MS box	Each	2.00		
	42	SUBMAINS / CIRCUIT MAINS / POWER WIRING				
	42.01	Supply and running of 1100 V grade FRLS insulated copper conductor wires in 2 mm thick FRLS conduits. The rate shall include supply and installation of all materials like conduits, wires, fixing accessories, etc.				
694	a	50 mm dia, FRLS conduit with all accessories.	Mtr.	50.00		
695	b	40 mm dia, FRLS conduit with all accessories.	Mtr.	50.00		
696	c	32 mm dia, FRLS conduit with all accessories.	Mtr.	100.00		
697	d	25 mm dia, FRLS conduit with all accessories.	Mtr.	450.00		
698	e	20 mm dia, FRLS conduit with all accessories.	Mtr.	400.00		
699	f	Supply & running of 4 x 10 sq.mm FRLSinsulated copper wires in existing conduits/raceways.	Mtr.	50.00		
700	g	Supply & running of 4 x 6 sq.mm FRLSinsulated copper wires in existing conduits/raceways.	Mtr.	50.00		
701	h	Supply & running of 4 x 4 sq.mm FRLS insulated copper wires in existing conduits/raceways.	Mtr.	50.00		
702	i	Supply & running of 2 x 6 sq.mm and 1 x 2.5 sq.mm FRLS insulated copper wires in existing conduits/raceways.	Mtr.	50.00		
703	j	Supply & running of 2 x 4 sq.mm and 1 x 2.5 sq.mm FRLS insulated copper wires in existing conduits/raceways.	Mtr.	400.00		
704	k	Supply & running of 2 x 2.5 sq.mm and 1 x 1.5 sq.mm FRLS insulated copper wires in existing conduits/raceways.	Mtr.	500.00		
705	l	Supply & running of 2 x 1.5 sq.mm and 1 x 1.5 sq.mm FRLS insulated copper wires in existing conduits/raceways.	Mtr.	250.00		
	43	POINT WIRING				
	43.01	Point wiring area with flat ceiling :Moduler Switches & SocketsWiring with 2 x 1.5 Sq.mm FRLS insulated 1100V grade copper conductor wires and 1x1.5 Sq.mm FRLS insulated earth wire in 16 Gauge 20 mm dia FRLS conduit. Height of ceiling varies from 3 to 4 meters. A separate neutral shall be run for each circuit.including MS Boxes, Ceiling holders,Slant holder etc.				
706	a	Single light point controlled by 6 Amps switch	Each	25.00		
707	b	Two light point controlled by 6 Amps switch (combined rate for two points)	Each	15.00		
708	c	Three light point controlled by 16 Amps switch (combined rate for three points)	Each	12.00		
709	d	Four to five light point controlled by 16 Amps switch (combined rate for three points)	Each	5.00		



710	e	Two way switch Controle by 6A Switch	Each	50.00			
	43.02	SUPPLY, ERECTION & COMMISSIONING OF LIGHTING FIXTURE/LAMPS/CEILING FANS/EXHAUST FANS. Supply of Indoor Lighting Fixture -Supply & store the following light fixtures complete with copper ballast,HPF Condenser, starters,controlgear, connecting wire WITH LAMPS /TUBES etc.complete as required.					
711	a	Supply of 2 pin retrofit 10W LED lamp	No.	220.00			
712	b	Supply of 2 pin retrofit 15 W LED lamp	No.	350.00			
713	c	supply LED DECO BATTEN - 20watts Decorative light fixture-4 feet	No.	121.00			
714	d	supply LED DECO BATTEN - 40watts Decorative light fixture-4 feet	No.	10.00			
	43.03	Supplying box type suitable for 28W T5 single/Twin lamp and suspension mounted luminaire & optical reflector. prewired with HF electronic ballast, push fit type lamp holder & main connectors. channel cover shall be made of CRCA MS sheet & finishing is done with stove enameled white with end caps made of engineering plastic.					
715	a	1 x 4' -28 watts	Each	190.00			
716	b	2 x 4' -28 watts	Each	2.00			
717	c	Supplying cast aluminium round or oblong type bulkhead fitting with GI wire guard, glass cover with 15 Watts 230 volts CFL lamp	No.	45.00			
718	43.04	Supplying CFL mirror light fitting with 1x11W CFL lamp, choke, perspex cover and completely wired for use on 230V 50HZ supply.	Each	128.00			
719	43.05	Supplying of recess/surface mounted rolling type LED square/round Down light 12 Watts with 4/6W GU 10 LED lamp Rib Fabricated from Die cast aluminium with white powder coated prewired to mains connector with suitable driver & having swiveling unit of aluminium die cast eye ball & LED lamp position retained by circular wire spring. 5 years warranty against any manufacturing defect working under standard electrical condition.	Each	128.00			
720	43.06	Supplying of LED Square Recessed/surface Down lighter with 18 W system wattage Housing shell be with powder coated pressure Die cast aluminium alloy with corrosion resistant polyester powder coat & with extended heat sink. Diffuser/cover made of Lexan plastic material. rated life shall be L70 @50000 Hrs. which shall have inbuilt electrical protection like over/under voltage,short circuit,overload,open circuit & miswiring. Driver is on constant current driver output driver @0.06A with PF >0.9 with line voltage @ 220-240 V @ 50/60 HZ. driver efficiency > 85% & THD<15%. LED efficiency >130 lm/W at 1W & Fixture efficiency .75 lm/w with CRI>75 with injection moulded polycarbonate lens. 5 years warranty against any manufacturing defect working under standard electrical condition.	Each	128.00			
	43.07	Supplying of 1'x1' LED Square Recessed luminaire with 36W system wattage Housing shell be with preessure Die cast aluminium alloy with corrosion proof resistant polyester powder coated. Driver operates with voltage range from 100V to 270V 50/60 Hz. with short circuit,overload, & mis-wiring protection. Lumen maintenance of 70% at50000 Hrs. injection moulded polycarbonate diffuser for better mechanical stability, light transmission & avoid pot hole effect. junction temperature shall be <70 degree celsius. Driver is on constant current driver @0.06A with PF >0.92 with line voltage @ 220-240 V @ 50/60 HZ. driver efficiency > 85% & THD<15%. LED efficiency >130 lm/W at 1W & Fixture efficiency .75 lm/w with CRI >75 with injection moulded polycarbonate lens with < 80mm depth. 5 years warranty against any manufacturing defect working under standard electrical condition.					
721	a	LED modular down light 1'X1' - 22 watts	Each	5.00			
722	b	Supplying and fixing one of 230 volts Ding dong bell and a flush type bell push with gang box fixed on necessary wooden or rawl plugs using NF screws.	Each	64.00			
	43.08	Supply of Ceiling Fans :					
723	a	Supply & storing of ceiling fan with double ball bearings,accessories, connecting wire and other standard accessories.1200mm Sweep, 3 blade ceiling fan - Energy Efficient BEE - 5 star rated	Each	256.00			
724	43.09	Exhaust fans -Supply and storing of exhaust fans with sheet metal blades, necessary brackets, anti-corrosive epoxy painting, rubber cushions, etc., The 5 A 3-pin socket near fan locaion & remote located single-pole controlling switch, are included in the exhaust fan point.200 mm impeller dia with Louvers, 1400 rpm exhaust fan (1- phase)	Each	192.00			
44		Erection & Commissioning of Indoor Light Fittings :					



725	44.01	Assemble, installation, testing and commissioning of all lighting fixtures including connection with flexible copper wires, earth wire etc., as required complete.wll/ceiling/ with fasteners/grip bolts complete with all accessories.bulk head and decorative fixtures fixed on wall/ceiling	Each	950.00			
726	a	Same as above but fixing with rawl plugs instead of grip bolts.	Each	50.00			
727	b	1/2 -28W Fluorescent fixtures fixed on wall/ceiling with fasteners / grip bolts, complete with all accessories.	Each	322.00			
728	c	Erection and Commissioning of Ceiling Fans :Assemble, installation, testing and commissioning of Ceiling fans including connection with flexible copper wires, earth wire, etc. as required complete.1200 mm sweep 3 blade ceiling fan.	Each	256.00			
729	d	Erection & Commissioning of Exhaust Fans :Assemble, installation, testing and commissioning of exhaust fans and accessories including connection withflexible copper wires, earth wire, etc. as reqd. complete.200 mm dia. 1400 rpm exhaust fans (single phase)	Each	192.00			
45		EXTERNAL LIGHTING Supply and Erection the External lighting Poles/ bollards & fixtures					
45.01		Street/Security Lighting : Fabricating, supplying and erection of 8 Mtrs Long hot dip galvanised octagonal pole with BSEN10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with door opening arrangements,including suitable boards,bakelite sheet and MCBs in/out terminal box as per IS specifications suitable to withstand the wind speed of 47 m/sec for.. Mtrs pole in single section and singe joint welded as per IS 9595/IS 10178AWS having dimensions bottom..mm,top.. with 3mm thick, suitable base plate and 4nos of.. long J bolts along with template and the pole shall be hot dip galvanized in single dipping with not less than 65microns as per ASTM-A123 and 153 etc.,- Including 750X500X500 MM RCC foundation as per requirement.					
730	a	8 meters - Top 70mm and bottom 135 mm dia	Each	11.00			
45.02		Supplying & fixing telescopic GI bracket fabricated by using 0.5 m length 4" dia telescopic GI pipe with 2" dia 1 m long GI bracket and are welded with suitable angle using 6 mm thick GI sheet, grip bolts & nuts as requirde, suitable for 9 to 12 Mtrs GI Octoganal pole with necessary two coast of painting,with all other accessories.					
731	a	Single bracket 1.0 Mtr. Length	Each	7.00			
732	b	Double bracket 1.0 Mtr. Length	Each	4.00			
51.03		Supply and installation / fixing / provision of pole box with MCB provision and suitable connector / terminal for 3 Ph / 1 Ph connections with loop-in & loop-Out terminals for 10 Swmm / 25Sqmm 3.5 c Al/Ar / Cu/Ar cable, and branch out 2.5 Sqmm 2 core Al/Cu PVC insulated cable, enclosed in a Thermoplastic,polystyrene enclosure, which should be shock proof, safe , IP65(Weather proof), rust proof, dust proof, water proof, having internally Embedded Gasket with provision for cable entry through IP65 Thermoplastic, polyamide glands and/or grommets.					
733	a	200mmX200mmx98mm	Each	4.00			
734	b	260mmX260mmx116mm	Each	2.00			
45.03		Supply of LED street light with pressure die cast aluminium housing body with optimal heat sink for better thermal disipation. Diffuser with injection moulded & is made of polycarbonate material with high transimssion index, delivering superior output. Rated life burning hours 50,000 @ lumen maintenance of 70%. CCT > 5500K, IP66 optical & electrical compartment & impact resistance of complete luminaire => IK08. P.F >0.9 with mains current should not be grater than 0.1A to 0.2A and surge protection -min 4kV along with overvoltage / overload, short circuit mis-wiring protection. compatabel for pole mounting with outer dia of 40mm-50mm. Universal voltage driver to operates wide voltage range from 100V - 270 V,50/60 Hz application. Overload & Short circuit protection ensures reliable operation inspite of problem in output side. compliance to IS 10322/IEC 60598, LM79 & LM80 adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenace at sight site location with minimised minimal tools. LED light fixture with ...W system power consumption. LED efficiency > 130lm/w at 1w & fixture efficiency 80lm/w with nominal CRI > 75. Luminaire manufacturer should have in house facility accredited by NABL/CPRI & any government certified agency & design & development facility certified by ISO 9001:2008. Housing with supplier word mark/name shall be engraved / embossing on the die cast housing./ body part.Warranty of 5 years against any manufacturing defects working under standard electrical conditions suitable for B1/B2 roads as per IS 1944 part-1 & part-2.					
735	a	LED Street light 42W	Each	15.00			



736	46	5.5 Mts SOLAR LIGHTING- 24 Watts:Supplying,Testing and Commissioning at site outdoor type solar street Lights with the following specifications 5.5 mts MS poles. A stand alone Solar Photo voltaic system 1x74 watts output PV module comprises a 24W LED Fixture Lead acid battery, PVC module,controll electronic inter connecting wires/ cables module mounting hardware , battery box , operators and instructions. The system should through out night and automatically switch OFF at dawn. The lamp should be LED 24W LED LAMP with adequate preheating circuit must be provided. The light output from the lamp should be around 2300 lumens , folded electrode type battery position tubular plate low maintenance lead acid battery. The battery will have minimum rating of 42 volts, 100 AH./ COMPACT SMF Equivalent as required The inveter should is of equal Sine wave/ Sine wave type with frequency in a range of 20-30 KHz half wave operation is not acceptable.The Photovoltaic module should contain crystalline silicon solar cells,The power output of the module under STC should be minimum of 74 Watts. The system should have protections against battery over discharge deep discharge of short circuit. The 5.5 Mts MS pole should be made of mild steel, painted with enameled paint.Makes - PHILIPS / AETHON/ TATA BP	No.	4.00		
737	47	Surface/wall mounted, 1x15W CFL bulk head fixture with lamp (Wipro type: FWP42118 or equivalent)	Each	10.00		
	48	Garden Lights.				
738	a	BOLLARD 14W LED 800 hight decorative bollard, control gear including lamp.with 300x300x350 PCC foundation(philips type: BCP400 LED09 D CW PSU GR S1 or approved equivalent).	Each	10.00		
739	b	Mini Spike flood 12W LED bush Highlighter (philips type: 31386 GARDEN SPIKE LIGHT or approved equivalent).	Each	2.00		
	49	TELEPHONE SYSTEM :				
	50	Jelly Filled Cables				
	50.01	Supply and laying of telephone cables, armoured, annealed tinned copper conductor and petroleum jelly filled with polythene outer jackets conforming to P&T specification. The method of laying shall be similar to power cables. Telephone cables shall be run in a separate trench at least 600 mm away from other power cables. (The civil works for excavation will be included under heading "Civil Works for Outdoor Cable Laying). This rate shall include cable end terminations also using kits, cable glands, cable lugs, etc. as reqd. complete.				
740	a	100 Pair Cables.	Mtr.	50.00		
741	b	50 Pair Cables.	Mtr.	50.00		
742	c	20 Pair Cables.	Mtr.	50.00		
	50.02	Armoured Cable :Same as 52.02 with armoured type instead of jelly filled type.				
743	a	100 Pair Cables.	Mtrs.	50.00		
744	b	50 Pair Cables.	Mtrs.	50.00		
745	c	20 Pair Cables.	Mtrs.	20.00		
	50.03	Telephone Junction Boxes:Supply and fixing up of suitable 16 Gauge M.S. box with 5 Amps rated terminal modules and covered with 5 mm thick Perspex as required complete.sheet/M.S. cover flush mounted in wall				
746	a	200Pair Telephone junction box	Each	1.00		
747	b	100Pair Telephone junction box	Each	2.00		
	51	POWER EARTHING SYSTEM				
748	51.01	Earthing Stations :Providing the earth stations with necessary materials,labour, civil works, etc. as per Indian Standard specification IS:3043 etc. complete.3 mtrs long 50 mm dia. G.I. Pipe electrode earth station.The chamber size shall be 400x400x400 mm with RCC. Cover plate. The identification number shall be provided both inside and outside.	Each	10.00		
749	51.02	600x600x3.15 mm copper plate electrode earth station. The chamber size shall be 450x450 mm with RCC Cover plate. The identification number shall be inside and outside of equipment.provided both inside and outside of equipment.	Each	10.00		



750	52	Supply and installation of Chemical earthing system with ZINC coated 48 mm dia, 3 Mtrs long pipe, one inserted inside the other. Both the pipes shall be subjected to hot dip galvanization:80-100 microns on the outer electrode and 250-300 microns inside electrode. The empty space shall be filled with Crystalline Conductive Mixture. Providing with watering funnel, 300mm x 300mm RCC frame and heavy duty RCC cover, 300mm brick masonry chamber etc., complete .Make ASHLOK - Model T-19 - Z. or approved equivalent	Each	4.00			
751	53	Supply and installation of Chemical earthing system with COPPER coated 76 mm dia, 3 Mtrs long pipe, one inserted inside the other. Both the pipes shall be subjected to hot dip galvanization:80-100 microns on the outer electrode and 250-300 microns inside electrode. The empty space shall be filled with Crystalline Conductive Mixture. Providing with watering funnel, 300mm x 300mm RCC frame and heavy duty RCC cover, 300mm brick masonry chamber etc., complete .ASHLOK - Model T-39 - CU.or approved equivalent	Each	4.00			
	54	Supply & running of GI /Copper strips for grounding connections using necessary fixing materials as required					
	54.01	GI Strip.					
752	a	a. 25 X 3 mm	Mtr.	100.00			
753	b	b. 25 X 6 mm	Mtr.	200.00			
754	c	c. 40 X 6 mm	Mtr.	100.00			
	54.02	Copper Strip					
755	a	a. 25 X 3 mm	Mtr.	50.00			
756	b	b. 25 X 6 mm	Mtr.	50.00			
757	c	c. 25x6 mm Copper tape with Sleeve	Mtr.	50.00			
758	54.03	8 SWG Copper wire	Mtr.	50.00			
759	54.04	10 SWG Copper wire	Mtr.	650.00			
760	54.05	14 SWG Copper wire	Mtr.	15.00			
761	54.06	40 X 6 mm CU Strip of 750mm Length formed U-clamp with holes and bolt/ nuts mounted on Insulators	Nos	12.00			
762	54.07	Backlite Insulator Suitable for 25x6 Strip mountingb including Supply and Erection	Nos	20.00			
	55	LIGHTNING PROTECTION SYSTEM:Lightning Protection & Earthing Systems As per IS- IEC 62305 -3 Level - 3 OBO Betterman /ABB Make Supply and Erection of the Following Items including all mounting Accessories					
	55.01	Air Terminal (Horizontal)					
763	a	8 mm Aluminum Round Conductor as horizontal air terminal	Mtr	300.00			
764	b	Holder for 8 mm Al conductor with Screws	Nos	300.00			
765	c	conductor Holders for Terrace	Nos	15.00			
766	d	universal Cross connector (At every crossing of conductor)	Nos	15.00			
767	e	Expansion Piece (at every 20 metres interval)	Nos	12.00			
768	f	Connector for expansion piece (2 Nos / Expansion Piece)	Nos	6.00			
769	g	T -Cross connector and parallel connector	Nos	24.00			
770	h	Lightning rod, tapered, 3000mm, Alu.Adjustable floor feet for FangFix,FangFix system complete system and Glue	Nos	6.00			
	55.02	Down Conductor					
771	a	8 mm Al Conductor	Mtr	200.00			
772	b	Down Conductor Holder for Brick wall with Screws	Nos	200.00			



773	c	Test Joint /floading clamp (Saddle Clamp)	Nos	12.00			
774	d	Lightning Counter as per IEC	Nos	1.00			
	55.03	Earthing					
775	a	Flat Conductor 30X6mm G.I Strip	Mtr	50.00			
776	b	Cross contor for Flat	Nos	45.00			
777	c	Copper Coated Earth Rod (14.2mm Dia,3 Mtr rod)	Nos	6.00			
778	d	Earth Conductivity Enhancing Mineral Compound (25 kg)	Nos	6.00			
779	e	Impact Point	Nos	6.00			
780	f	Universal Clamp and 1-no corrossion proffing band	Nos	6.00			
781	g	Under Floor Earth Inspection Pit	Nos	6.00			
	56	MISCELLANEOUS ITEMS					
782	56.01	Steel items, cable Trays :Supply, fabrication, erection painting of steel items asrequired as per specification complete. Generally steel items include cable trays and supporting arrangements and any other steel items not covered in other items of schedule of quantities. The rate shall also include painting with two coats of red oxide and primer and two coats of synthetic enamel paint of approved shade.	Kgs	300.00			
	56.02	Perforated Cable Trays : Supply, Installation / laying of Perforreted type Tray, pre-fabricated 16 swg hot dip galvanised sheet steel cable trays & other accessories & hardwares. All installation hardwares (Threaded down rods, Nut, Bolts & washers etc.) & Cable trays and accessories					
783	a	50 x 450 mm wide.	Mtr.	25.00			
784	b	50 x 300 mm wide.	Mtr.	75.00			
785	c	50 x 200 mm wide.	Mtr.	25.00			
	56.03	Ladder Cable Trays :Supply, Installation / laying ofLadder type Tray, pre-fabricated 16 swg hot dip galvanised sheet steel cable trays & other accessories & hardwares. All installation hardwares (Threaded down rods, Nut, Bolts & washers etc.) & Cable trays and accessories					
786	a	50 x 750 mm wide.	Mtr.	75.00			
787	b	50 x 600 mm wide.	Mtr.	125.00			
788	c	50 x 450 mm wide.	Mtr.	60.00			
789	d	50 x 300 mm wide.	Mtr.	50.00			
790	e	150 mm Hume pipe including fixing accessories, earthExcavation ,refilling etc.,	Mtr.	25.00			
791	f	300 mm Hume pipe including fixing accessories, earth Excavation ,refilling etc.,	Mtr.	15.00			
792	g	50 mm GI pipe A class including fixing accessories,	Mtr.	10.00			
	56.04	Providing & fixing the following MISCELLANEOUS items:					
793	a	4 Fire buckets of 9 ltrs. capacity with floor, stand, sand,painting, etc.	Set	2.00			
794	b	Supply & Erection Rubber mats of 1.1 kV grade 1.8 Mtrs x 0.9 Mtrs and of sufficient thickness as required by the Electrical Inspectorate and confirming to IS 5424Supply & Erection.	Each	8.00			
795	c	Shock treatment chart with teak wood frame and glass cover as approved by Electrical Inspectorate.Supply & Erection	Each	2.00			
796	d	Supplying and installation of Dry chemical powder 5 kgs capacity Fire Extinguishers gor multipurpose(DG, Electrical Panel)Supply & Erection	Each	2.00			
797	e	Electrical single line diagram (As Built drawing) with teakwood frame and glass cover.Supply & Erection	Each	2.00			



798	f	First Aid Box. Supply & Erection	Set	2.00			
799	g	Supplying and fixing of DANGER / NO ADMISSION / NO SMOKING board made out of MS sheet metal with two coats of non corrosive enameled paint .Supply & Erection	Each	4.00			
800	h	LT Cable route marker- with Arrow, Embedded in ground with RCC/PCC as required - Supply & Erection	Set	6.00			
	57	STATUTORY APPROVALS					
801	57.01	Obtaining 350 kVA power sanction from EB and servicing the installation. and 65 nos ESCOM KWH Meters and executing HT line works etc.,All official payments against receipts will be paid by client.	Lump sum	1.00			
802	57.02	Obtaining Electrical Inspectorate approval for the installation including preparation of drawings, spot inspection etc. All official payments against receipts will be paid by client.	Lump sum	1.00			
	58	FACTORY-BUILT MCB DISTRIBUTION BOARDS:Supply, store, erection, testing and commissioning of MCB Distribution Boards, wall-mounted (either surface or recessed type). The erection rates shall include fixing of DB on wall including supply of all fixing accessories, civil works etc. space provision shall be made for mounting ELCB in the incomer MCB. The rate shall be same for any combination of outgoing.					
	58.01	4 Way TPN DB with 20/25 Amps 2P MCB incomer and 12Nos.1-pole 6 to 20 Amps MCB outgoing.					
803	a	Supply	Each	64.00			
804	b	Erection	Each	64.00			
	58.02	2 pole Residual Current Circuit Breaker (RCCB) with normal current rating of 25A and sensitivity of 100/300 mA.					
805	a	Supply	Each	64.00			
806	b	Erection	Each	64.00			
	59	SOCKET OUTLETS :					
	59.01	Commercial Type :Supply, erection, testing and commissioning of power points by providing following switches/sockets mounted flush on to the furniture partition wall or fixed to surface or recessed mounted boxes with all fixing and wiring accessories. Moduler Switches & Sockets 6/16 Amps, 6-pin (250Volts) single phase universal socket with 16 Amps single pole switch.in kitchen, AC & utility					
807	a	Supply	Each	225.00			
808	b	Erection	Each	225.00			
	59.02	25\30 Amps 3-pin socket including recessed MS switch box for Geyser /AC					
809	a	Supply	Each	192.00			
810	b	Erection	Each	192.00			
	59.03	25\30 Amps 2P Switch & indicator including recessed MS switch box for Geyser /AC					
811	a	Supply	Each	192.00			
812	b	Erection	Each	192.00			
	59.04	6 Amp 3-pin (250Volts) single phase commercial socket with 5 Amp, SP switch.					
813	a	Supply	Each	450.00			
814	b	Erection	Each	450.00			
	60	SUBMAINS / CIRCUIT MAINS / POWER WIRING:					
	60.01	Supply and running of 1100 V grade FRLS insulated copper conductor wires in 2 mm thick FRLS conduits). The rate shall include supply and installation of all materials like conduits, wires, fixing accessories, etc., 32 mm,dia FRLS conduit with all accessories.for submains					



815	a	Supply	Mtr.	2700.00			
816	b	Erection	Mtr.	2700.00			
	60.02	25 mm,dia FRLS conduit with all accessories.for TV,TP & Power points					
817	a	Supply	Mtr.	7800.00			
818	b	Erection	Mtr.	7800.00			
	60.03	20 mm, dia FRLS conduit with all accessories.All lighting ckts & points					
819	a	Supply	Mtr.	5000.00			
820	b	Erection	Mtr.	5000.00			
	60.04	Supply & running of 2R x 6 + 2 x 4 sqmm FRLS insulated copper wires in existing conduits/raceways.					
821	a	Supply	Mtr.	3000.00			
822	b	Erection	Mtr.	3000.00			
	60.05	Supply & running of 2 x 4 and 1 x 2.5 FRLS insulated copper wires in existing conduits/raceways.					
823	a	Supply	Mtr.	5000.00			
824	b	Erection	Mtr.	5000.00			
	60.06	Supply & running of 2 x 2.5 and 1 x 1.5 FRLS insulated copper wires in existing conduits/raceways.					
825	a	Supply	Mtr.	4500.00			
826	b	Erection	Mtr.	4500.00			
	61	POINT WIRING: Point wiring area with flat / false ceiling;Modular Switches & Sockets;Wiring with 2 x 1.5 Sq.mm FRLS insulated 1100V grade copper conductor wires and 1x1.5 Sq.mm FRLS insulated earth wire in 16 Gauge 20 mm dia FRLS conduit. Height of ceiling varies from 3 to 4 meters. A separate neutral shall be run for each circuit.Including MS Boxes, Ceiling holders,Slant holder etc.					
	61.01	Single light point controlled by 6 Amps switch					
827	a	Supply	Each	1000.00			
828	b	Erection	Each	1000.00			
	61.02	Two Way switch for 1 light point control.					
829	a	Supply	Each	150.00			
830	b	Erection	Each	150.00			
	61.03	Two Tight points control by 6 Amps switch					
831	a	Supply	Each	20.00			
832	b	Erection	Each	20.00			
	61.04	Call bell point including bell push - 2 Pole					
833	a	Supply	Set	64.00			
834	b	Erection	Set	64.00			
	61.05	Ceiling fan point (with fan hook box) including 6 Amps Double pole control switch including 300 Watts electronic step regulator.					
835	a	Supply	Each	256.00			



836	b	Erection	Each	256.00			
	61.06	Exhaust fan point with wall-mounted 6 Amps 3-pin socket near fan location and 6 Amps single pole controlling switch located independently. The rate shall also include supply of 6 Amps 3 pin plug top.					
837	a	Supply	Each	192.00			
838	b	Erection	Each	192.00			
	62	TELEPHONE / T.V / INTERCOM SYSTEM :					
	62.01	Telephone Sockets: Supply and fixing of Telephone socket outlet including M.S. box comprising RJ - 11 socket for Intercom					
839	a	Supply	Each	2.00			
840	b	Erection	Each	2.00			
	62.02	Supply and fixing of Telephone socket outlet including M.S. box comprising RJ - 45 socket for DOT					
841	a	Supply	Each	128.00			
842	b	Erection	Each	128.00			
	62.03	Supply and fixing of Television socket outlet(Co-axial jack)(Including metal box for recessed mountin)					
843	a	Supply	Each	64.00			
844	b	Erection	Each	64.00			
	63	Telephone Wires:Supply and running of 0.51 mm tinned copper conductor unarmoured PVC insulated telephone wires in existing conduits.					
	63.01	Two Pair					
845	a	Supply	Mtrs.	50.00			
846	b	Erection	Mtrs.	50.00			
	63.02	CAT-5E cable					
847	a	Supply	Mtrs.	1250.00			
848	b	Erection	Mtrs.	1250.00			
	63.03	CAT-6 cable					
849	a	Supply	Mtrs.	1400.00			
850	b	Erection	Mtrs.	1400.00			



	63.04	75 Ohm Co-axial TV cable RG - 6				
851	a	Supply	Mtrs.	1500.00		
852	b	Erection	Mtrs.	1500.00		
853	63.05	Supply, fabrication, erection of 14 G galvanised sheet steel for use as draw boxes, race way, covers etc. Supply & Erection	Sq.inch	10000.00		
	64	CCTV SYSTEM				
	64.01	Supply, Erection and commissioning of Analog HD CCTV system with all mounting accessories and related items. Camera and DVR Make : True View / Auric / Panasonic				
854	a	Supply of IRB AHD 2.4 MP/322/MB-01/36L/3.6MM/20 METERS EFFECTIVE RANGE, 0.02 LUX /F1.2 /0 (IR ON). Bullet Body	Nos	6.00		
855	b	Supply of IRD AHD 2.4 MP/322/DT-01/36L/3.6MM/20 METERS EFFECTIVE RANGE, 0.02 LUX /F1.2 /0 (IR ON). Dome Body	Nos	20.00		
856	c	Supply H.264 1AHD DVR 16CH - 4AU / Recording 3MP / Viewing 3MP Supports -> Analog + AHD + IP Camera + TVI(2.0 and further versions) + CVI HDD SUPPORT - 6TB x 2, and support, 3 G Mobile, Android, Iphone, I PAD	Each	2.00		
857	d	Camera power supply - SMPS	Each	8.00		
858		Connectors	Each	130.00		
859	e	Hard - Disc - 4 TB for installing inside of DVR	Each	4.00		
860	f	Monitor 22"	Each	3.00		
861	g	Network Rack with power stripe	Each	1.00		
862	h	Cable RG 59 + 2 core copper Supply Only in metre	Mtrs	750.00		
863	i	PVC conduit 25MM dia with Accessories Supply Only in metre	Mtrs	700.00		
	65	50 KVA DG SET				



864	65.01	Supply, Installation, and Commissioning 1 X 50 KVA DG set comprising of Diesel Engine radiator cooled type alternator 50 KVA output, 415V, 50HZ, 3 Phase, 4 Wire, 0.8 Power factor, Acoustic Enclosure hood with all associated accessories and double door, fans, light fixtures, Control MCB etc. OUT DOOR TYPE Acoustic Enclosure , Terminal box, Battery stand & Charger, fuel pipe, Residential silencer, Anti Vibration pads, 220 lts Fuel tank, Electronic governor etc, including Govt approvals from electrical & inspectorate and Pollution control Board etc., Cost including first fill of diesel and lube oil 8 Hrs testing & battery charging etc, make - Cummins - Engine, Samford - Alternator	Set	1.00		
865	65.02	DG AMF AND CONTROL panel BUILT IN DG SET:- Supply, Installation, and Commissioning panel Built inside Acoustic Enclosure as following 100A 4 pole 25KA MP based MCCB and Heavy duty Single Contact, RYB Indicator ELR/CBCT, CT with Ammeter / Voltmeter, auto manual switch, EC2 AMF relay BATTERY charger, hooter, DC-Amp/voltmeter and required as per Requirement & Logics All components MCCB - SCHINDER/SIEMENS, Meter - L&T/prokdevises	Set	1.00		
866	65.03	Supply and Installation of 4" Exhaust pipe with aluminium cladding	Mtrs	32.00		
867	65.04	Providing Residential Silencer aluminium cladding	Set	1.00		
868	66	Supporting Steel items for Exhaust piping :Supply, fabrication, erection painting of steel items as required as per specification complete. The rate shall also include painting with two coats of red oxide and primer and two coats of synthetic enamel paint of approved shade.	Kgs	300.00		
TOTAL AMOUNT WITHOUT TAXES						
GST at 18%						
GRAND TOTAL IN Figures						
GRAND TOTAL IN Words						
Note : Evaluation shall be done without considering the GST. GST is to be quoted in the column provided, if the same is not quoted (or left blank) it will be considered as the prices are inclusive of GST.						

