

SCHEDULE OF RATES  
2018 FOR BITRA  
W.E.F 01.11.2018

Sd/-  
Prepared by  
Shri. K.Koyakidave  
( Head Draughtsman )

Sd/-  
Checked by  
Shri. Mohammed Naz  
Assiastant Enginee  
( LPWD Kavaratti )

Sd/-  
Shri. M.K.Abdul Salam  
Executive Engineer  
( LPWD Kavaratti )

Sd/-  
Shri. Arun Jadhav  
Executive Engineer  
( Smart Cell Kavaratti )

Sd/-  
Shri.Mohammed Kudage  
(Superintending Engineer)

<b>Carriage of Materials</b>
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By Manual Labour including loading, unloading and stacking for lead less than 0.5 KM

S. No	Materials	Unit of Rates	Cost per unit cost for 1st 50 metres
1	Lime, mooram building rubbish	1 cum	239.41
2	Earth	1 cum	299.27
3	Manure or sludge	1 cum	260.23
4	Excavated rock	1 cum	478.83
5	Sand, stone aggregate below 40 mm nominal size	1 cum	239.41
6	Stone aggregate 40 mm nominal size and above	1 cum	323.53
7	Soling stone	1 cum	352.08
8	Bricks	1000 Nos	558.63
9	Brick Tiles, Allahabad roofing tiles (Flat or round)	1000 Nos	349.14
10	Stone blocks, G.I., C.I.pipes below 100 mm dia and other heavy materials	1 tonne	218.50
11	Cement	1 cum	173.32
12	Steel	1 tonne	372.26
13	Timber	1 cum	239.31
14	S.W./ PVC/UPVC pipe		
15	100 mm dia	100 m	437.38
16	150 mm dia	100 m	718.96
17	200 mm dia	100 m	1006.11

<b>ANALYSIS OF RATES FOR TRANSPORTATION OF MATERILAS FROM STORE YARD TO WORK SITE AT I</b>			
<b>Vide Ref FNo.M/1/J2012/Road/DATED 04.10.2018</b>			
<b>I</b>	<b>Cement</b>		
	Rate for per tonne		<b>1000.00</b>
<b>II</b>	<b>River sand</b>		
	Rate for per Cum (1.6 Mt/cum)	950.00	<b>950.00</b>
<b>III</b>	<b>Granite Chips per Mt</b>		
	Rate for per Cum ( 1.8 Mt/cum)	950.00	<b>950.00</b>
<b>IV</b>	<b>Steel</b>		
	Rate for per Mt	1000.00	<b>1000.00</b>
<b>V</b>	<b>Bricks</b>		
	Rate for per 1000 Nos (2.5 Mt) 480*2.5	2500.00	<b>2500.00</b>
<b>VI</b>	<b>Timber per Mt</b>		
	Rate for per Cum ( 0.8 Mt/Cum)	1400.00	<b>1400.00</b>
<b>VI</b>	<b>Granite boulders</b>		
	Rate for per Cum ( 2.8 Mt/cum)	1100.00	<b>1100.00</b>

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<b>ANALYSIS OF RATES FOR TRANSPORTATION OF MATERILAS FROM STORE YARD TO WORK SITE AT I</b>			
<b>SLNo</b>	<b>Materials</b>	<b>Total</b>	<b>Unit</b>
1	Cement	1000.00	/Mt
2	Sand	950.00	/Cum
3	Granite chips	950.00	/Cum
4	Steel	1000.00	/Mt
5	Bricks	2500.00	/1000 Nos
6	Timber	1400.00	/Cum
7	Granite boulders	1100.00	Cum

## SCHEDULE OF RATES 2018 AT BITRA

BASIC RATE			
	Transportation of Materials	Unit	Rate
1	Cement	Mt	1000.00
2	River sand/Metal sand	Cum	950.00
3	Granite chips	Cum	950.00
4	Steel	Mt	1000.00
5	Bricks	1000 Nos	2500.00
6	Timber	Cum	1400.00
7	Granite boulders	Cum	1100.00
<b>Labour Rate</b>			
8	Painter,Fitter& Blacksmith	Each	1200.00
9	Mason,Carpenter, 1 st class	Each	1150.00
10	Mason,Carpenter, Black smith, Fitter 2 nd class ,glazer and Mistry	Each	1050.00
11	Beldar,Coolie,Bhisti,Bhandani,Chowkidar,Mate	Each	950.00
<b>Materials Rate</b>			
12	Cement ( Ag No.2/EE/Amini/2017)	Bag	530.00
13	Granite chips ( Ag No.41/EE/Amini/2016-2017)	Cum	5171.00
14	River sand	Cum	4444.00
15	Bricks ( Ag No.41/EE/Amini/2016-2017)	Each	19.45
16	Granite boulders (Ag No.41/EE/Amini/2015-2016)	Cum	6786.00
17	Steel ( Ag No.49/EE/Amini/2016-2017 )	Kg	56.95
18	Metal sand (Ag No.41/EE/Amini/2016-2017 )	Cum	5993.00
19	Granite baby Chips ( Ag. No 70/EE Kvt/2014-15 )	Cum	4207.00
20	Granite powder ( Ag.No 59/EE Kvt/2014-15 )	Cum	3999.00
21	C.C. block 40x20x15Cms( FNo 1/15/2017-AB.1 )	each	97.50
22	Deisal	litr	75.00
21	Timber Scantlings (Aggr.No.19/EEKvt/2012-13)	Cum	58000.00
22	Timber Planks	Cum	70000.00
23	Timber Reeper	Cum	45000.00
24	Red Mud (Ag No.12/EE/Amini/2017)	Cum	3950.00
25	Mixer (DSR 2016)	Each	800.00
26	Vibrator (DSR 2016 )	Each	350.00
27	Hydraulic excavator with driver and fuel (DSR 2016)	Day	8000.00
28	Hire running charges of loader (DSR 2016)	Day	5000.00
	Hire running charges of tipper (DSR 2016)	Day	1700.00
29	Timber Planks ( Kail wood for centring & shuttering)	Cum	43968.75
30	Wall form panel 1250x500mm	Each	2296.88
31	Corner angle 45x45x5mm 1.50m long	Each	630.00
32	100mm channel shoulders 2.5 mlong	Each	2493.75
33	Double clip ( bridgre clip )	Each	196.88
34	Single clip	Each	170.63
35	MS Tube 40 mm	Mtr	496.13
36	Adjustable span-ESOSI (2.35-3.40m)	Each	2985.94
37	Adjustable telescopic prop 3mm (2.02-3.75m)	Each	2067.19
38	Beam clamp 300 -380 mm ( 450-1070 mm )	Each set	853.13
39	Wall form panel 1250x400mm	Each	2034.38
40	Corner angle 2.50 m long	Each	715.31
41	Column clamp (450-1070 mm)	Each	1949.06
42	Prop.2m (2.0-3.5)	Each	1345.31
43	Safeda ballies 125 mm dia	Mtr	85.31
44	Carriage of stone aggregate	Cum	239.41
45	Carriage of Coarse sand	Cum	239.41
46	Carriage of Timber	Cum	239.31
47	Carriage of steel	Mt	372.26

48	Carriage of cement	Mt	173.32
49	Carriage of bricks	1000 Nos	558.63
50	Carriage of A.C/G.Alum sheet and accessories	Mt	218.50
51	Trough and bond stone	Each	25.59
52	M.S butt hinges 100x58x1.90mm	Each	78.72
53	M.S butt hinges 50x37x1.50mm	Each	35.78
54	M.S screw 40 mm	Each	1.07
55	M.S screw 20 mm	Each	0.72
56	Float glass sheet 4 mm thick	Sqm	543.88
57	Black board construction flush door with teak wood ply on both face 35 mm thick	Sqm	3005.63
58	Stainless butt hinges 100x60x2.5mm IS 12817	Each	150.28
59	Stainless steel screws 40 mm	Each	3.94
60	M.S flat 40x5mm 0.40m long	Qntl	9187.50
61	Coir veneer board 18 mm thick	sqm	1789.06
62	Coir veneer board 6 mm thick	sqm	930.31
63	Rawl plug 50 mm	Each	17.18
64	Teak wood second class scantlings	Cum	108281.25
65	Teak wood second class planks	Cum	140000.00
66	C.P brass curtain rod 20 mm dia	Mtr	493.78
67	C.P.brass bracket	Each	21.47
68	Nickel plate M.S pipe 20 mm dia	Mtr	128.81
69	Nickel plate M.S bracket	Each	18.61
70	Alu.sliding door bolt 300x16mm	Each	372.13
71	Alu.sliding door bolt 250x16mm	Each	322.03
72	Alu.sliding door bolt 200x16mm	Each	257.63
73	Alu.sliding door bolt 150x16mm	Each	243.31
74	Alu.Tower bolt 225x10mm	Each	178.91
75	Alu.Tower bolt 200x10mm	Each	157.44
76	Alu.Tower bolt 150x10mm	Each	135.97
77	Alu.Tower bolt 100x10mm	Each	114.50
78	Alu.handle 125 mm	Each	121.66
79	Alu.handle 100 mm	Each	108.78
80	Alu.handle 75 mm	Each	91.60
81	Alu.hooks &eyes 200 mm	Each	107.34
82	Alu.hooks &eyes 150 mm	Each	97.33
83	Brass screws 25 mm	Each	1.79
84	Brass tower bolt 250x10 mm	Each	357.81
85	Brass tower bolt 200x10 mm	Each	322.03
86	Brass tower bolt 150x10 mm	Each	254.76
87	Brass tower bolt 100x10 mm	Each	147.42
88	Brass handle 125 mm	Each	264.78
89	Brass handle 100 mm	Each	243.31
90	Brass handle 75 mm	Each	168.89
91	Brass door latch 300x16x5 mm	Each	930.31
92	Brass door latch 250x16x5 mm	Each	824.40
93	Brass casement stayes 300 mm	Each	264.78
94	Brass casement stayes 250 mm	Each	200.38
95	Brass casement stayes 200 mm	Each	183.20
96	Brass cup board lack 75 mm	Each	160.30
97	Brass door stopper 75 mm	Each	100.19
98	Cupboard knob	Each	60.11
99	Mortice lock 6 levers 100 mm	Each	1216.56
100	Brass hudraulic door closer	Each	1574.38
101	24 mm thick factory made PVC door shutter	Sqm	3291.88
102	30 mm thick factory made PVC door shutter	Sqm	3506.56
103	25 mm thick factory made PVCflush shutter	Sqm	3184.53

104	Factory made PVC door frame 50x47x5 mm	Mtr	551.03
105	Factory made glass reinforced plastic door frame 90x45xmm i/c carriage	Mtr	593.97
106	30 mm thick factory made glass fiber reinforced plastic panel door shutter i/c carriage	Sqm	2812.41
107	Structural steel such as tees, angles, channels & R.S joist	Qntl	9843.75
108	Flats exceeding 10 mm in thickness	Qntl	8531.25
109	Flats upto 10 mm in thickness	Qntl	8531.25
110	Mild steel plates	Qntl	10631.25
111	Bolts and nuts 300 mm and above length	Qntl	11241.56
112	Pulley 40 mm dia	Each	91.88
113	Rolling shutter of 80x1.25 mm lath	Sqm	2034.38
114	Rolling shutter of 80x1.20 mm lath	Sqm	1575.00
115	Rolling shutter of 80x0.9 mm lath	Sqm	1515.94
116	Top cover 1.25mm thick	Mtr	892.50
117	Top cover 1.20mm thick	Mtr	479.06
118	Top cover 090mm thick	Mtr	426.56
119	Coil type spring	Each	380.63
120	Coil type spring 0.90 mm	Each	216.56
121	Ball bearing	Each	507.94
122	Mild steel tubes hot finished welded type	Kg	150.94
123	Mild steel tubes hot finished seamless type	Kg	170.63
124	Mild steel tubes electric resistant	Kg	203.44
125	Welding by gas plant	cms	4.27
126	M.S holding down bolt 1200 mm long	Qntl	11241.56
127	G.I Pipe	Mtr	328.13
128	Ceramic glazed wall tiles	Sqm	586.81
129	Ceramic glazed floor tiles 300x300 mm	Sqm	708.47
130	Vitrified floor tiles 50x50 cm	Sqm	1350.00
131	Galvanised steel corrugated sheets	Qntl	9384.38
132	G.I Steel bolt & nuts 6 mm dia and 25 mm long	10 Nos	39.38
133	G.I.J or L hooks 8 mm	10 Nos	140.44
134	G.I Limpet washer	100 Nos	53.13
135	Bitumen washer	100 Nos	44.37
136	G.I plain sheet 0.80 mm thick	Qntl	8859.38
137	G.I plain washers	100 Nos	49.88
138	G.I Seam bolt & nuts	each	45.50
139	Press clay tiles 20 mm thick 250x250 mm size	1000 Nos	19228.13
140	Carriage of tiles	1000 Nos	170.63
141	water proofing materials	Kg	42.94
142	Natural colour insulating board 12 mm thick	Sqm	536.72
143	White face insulating board 12 mm thick	Sqm	651.22
144	Particle board medium density ( Grade.I) 12 mm thick	Sqm	586.81
145	12.5 mm thick tapered edge gypsum plain board	Sqm	300.56
146	Galvanise steel ceiling section ( size 80x26x50 mm )	Mtr	68.25
1471	Galvanise steel Perimeter channel (size 20x27x30x0.5mm)	Mtr	52.50
148	Galvanise steel intermediate channel (size 15x45x15x0.90mm)	Mtr	63.00
149	Galvanise steel angle hanger ( ceiling angle ) (size 25x10x0.5mm)	Mtr	34.13
150	Galvanise steel connecting clip ( 2.64 mm dia and 230 mm long GI wire )	Mtr	45.94
151	Galvanise steel soffit cleat ( size 27x37x25x0.60 mm )	Each	8.01
152	All drive screws ( for gypsum board )	100 Nos	98.47
153	Joint filler	Kg	39.36
154	Joint finisher	Kg	41.79

155	Joint tape roll	Roll	241.88
156	Dash fastner 12 mm dia 40 mm long with 6 mm dia bolt	Each	77.44
157	12.5 mm thick tapered edge gypsum fire resistant board	Sqm	413.99
158	12.5 mm thick tapered edge gypsum moisture resistant board	Sqm	480.47
159	Press clay Mangalore tiles 20 mm thick	Each	19.23
160	Press clay Mangalore ridge tiles 20 mm thick	Each	49.59
161	Aluminium roofing sheet 0.56 mm thick	sqm	975.00
162	Hips / ridges of Aluminium sheet 1.22 mtrs length	each	780.00
163	O.P Pipe 15 mm dia	Mtr	65.84
164	O.P Pipe 20 mm dia	Mtr	97.33
165	O.P Pipe 25 mm dia	Mtr	121.66
166	O.P Pipe 32 mm dia	Mtr	183.20
167	O.P Pipe 40 mm dia	Mtr	221.84
168	O.P Pipe 50 mm dia	Mtr	246.18
169	P.V.C Pipe 110 mm dia ( 6 kg/sqcms)	Mtr	293.41
170	P.V.C Pipe 90 mm dia ( 6 kg/sqcms)	Mtr	264.78
171	P.V.C Pipe 75 mm dia ( 6 kg/sqcms)	Mtr	207.53
172	P.V.C Pipe 63 mm dia ( 6 kg/sqcms)	Mtr	178.91
173	P.V.C Pipe 50 mm dia ( 6 kg/sqcms)	Mtr	138.83
174	P.V.C Pipe 40 mm dia ( 6 kg/sqcms)	Mtr	111.64
175	P.V.C Pipe 32 mm dia ( 6 kg/sqcms)	Mtr	83.01
176	P.V.C Pipe 25 mm dia ( 6 kg/sqcms)	Mtr	50.09
177	C.P Brass bib cock 15 mm	Each	317.74
178	C.P Brass bib cock 20 mm	Each	422.22
179	C.P Brass stop cock 15 mm	Each	317.74
180	C.P Brass stop cock 20 mm	Each	422.22
181	G.M Full way valve 25 mm	Each	608.28
182	G.M Full way valve 32 mm	Each	701.31
183	G.M Full way valve 40 mm	Each	980.41
184	G.M Full way valve 50 mm	Each	1180.78
185	Ball valve ( brass ) 15 mm	Each	253.33
186	Ball valve ( brass ) 20 mm	Each	357.81
187	Ball valve ( brass ) 25 mm	Each	522.41
188	C.P Shower rose 15 to 20 mm inlet 100 mm dia	Each	322.03
189	C.P Shower rose 15 to 20 mm inlet 150 mm dia	Each	372.13
190	Polyethylene water storage tank with cover and suitable locking arrangement	per litre	10.16
191	C.P brass bib cock IS :8931 15 mm	Each	565.34
192	C.P brass long nose bib cock 15 mm	Each	593.97
193	C.P brass stop cock ( concealed ) 15 mm	Each	608.28
194	C.P brass angle valve 15 mm	Each	679.84
195	PTMT bib cock 15 mm	Each	200.38
196	PTMT bib cock with flange ( fancy ) 15 mm	Each	254.76
197	PTMT bib cock long body with flange 15 mm	Each	283.39
198	PTMT stop cock ( male thread ) 15 mm	Each	178.91
199	PTMT stop cock 20mm	Each	246.18
200	PTMT push cock 15 mm	each	153.14
201	Chlorinated Polyvinyl-chloride (CPVC) pipe 15 mm OD	Mtr	92.32
202	Chlorinated Polyvinyl-chloride (CPVC) pipe 20 mm OD	Mtr	112.35
203	Chlorinated Polyvinyl-chloride (CPVC) pipe 25 mm OD	Mtr	160.30
204	Chlorinated Polyvinyl-chloride (CPVC) pipe 32 mm OD	Mtr	212.54
205	Chlorinated Polyvinyl-chloride (CPVC) pipe 40 mm OD	Mtr	287.68
206	Chlorinated Polyvinyl-chloride (CPVC) pipe 50 mm OD	Mtr	362.29
207	White solid plastic seat and lid	Each	551.03
208	White vitrous china pedestal type W.C pan	Each	1323.91
209	10 liters low level C.I flushing cistern with fittings	Each	1223.72

210	Vitrous china flat back wash basin 550x400 mm	Each	923.16
211	C.P brass pillar tap 15 mm	Each	307.72
212	C.P brass waste coupling 32 mm	Each	107.34
213	C.I.M.S brackets	Each	97.33
214	C.P brass coupling 40 mm	Each	48.66
215	C.P brass waste 40 mm	Each	109.49
216	White vitrous china kitchen sink 600x450x250mm	Each	2490.38
217	Stainless steel Kitchen sink with drain board bowl depth 250 mm (510x1040x250mm )	Each	7528.38
218	White vitrous china laboratory sink 450x300x150mm	Each	1409.78
219	C.P brass tap 40 mm	Each	222.20
220	C.P brass union	Each	308.43
221	Mirror superior glass 600x450 mm	each	525.27
222	Hard board 6 mm thick	Sqm	250.47
223	Wooden plug	Each	25.76
224	C.P brass towel rail 600x20 mm	Each	450.84
225	PTMT liquid soap container 400 ml capacity	Each	256.62
226	Vitrous china toilet paper holder	Each	208.18
227	P.V.C soil waste and vent pipe 1.83 mtr long 100 mm	Each	397.89
228	P.V.C soil waste and vent pipe 1.83 mtr long 75 mm	Each	312.01
229	Stainless steel toilet paper holder Hindware F840008	Each	1280.97
230	Aluminium T or L sections	Kg	551.03
231	C.P brass s.s screws 20 mm	100 Nos	200.38
232	Anodising 15 microns on aluminum sections	Kg	68.70
233	Powder coating 50 microns on aluminium sections	Kg	111.64
234	Aluminum hinges 100x75x4 mm	Each	88.74
235	Prelaminated particle board with one side decorative and other side balancing lamination Grade.I type.II,confirming to IS 12823 ,12 mm thick	Sqm	1242.33
236	Prelaminated particle board with both side decorative lamination Grade.I type.II,confirming to IS 12823 12mm	Sqm	1273.81
237	Neoprene/ EDPM rubber gasket	Mtr	50.09
238	Float glass panes 4 mm thick	Sqm	543.88
239	Float glass panes 5.5 mm thick	Sqm	784.33
240	Float glass panes 8 mm thick	Sqm	1166.47
241	Toughened glass 12 mm thickness	Sqm	2800.00
242	Double action hydraulic floor spring with stainless steel cover plate	Each	2647.81
243	Double action hydraulic floor spring with brass cover plate	Each	3077.19
244	Silicon sealant	cartridge	536.72
245	Masking tape	Mtr	2.65
246	Brass 100 mm mortice latch and lock with 6 levers with out pair of handles	Each	500.94
247	Aluminium casement window fastener ( Anodized AC 15)	Each	78.72
248	Aluminium round shape handle ( powder coated )	Each	97.33
249	Brass door stopper 150mm	Each	281.96
250	S.S Screws 30x4 mm	100 nos	52.00
251	S.S Screws 25x4 mm	100 nos	43.00
252	Brass screws 40 mm	100 Nos	247.00
253	Brass hard drawn hooks and eyes 250 mm	10 Nos	1080.59
254	Brass hard drawn hooks and eyes 200 mm	10 Nos	1037.66
255	C.P brass butt hinges 100x70x4 mm	10 Nos	1080.59
256	C.P brass butt hinges 75x65x4 mm	10 Nos	1624.47
257	White cement	Qntl	3291.88
258	Dry distemper	Kg	69.42
259	Oil bound washable distemper / acrylic distemper	Kg	78.72



260	Water thinnable cement primer	litre	134.54
261	Water proofing cement paint	Kg	68.70
262	Textured exterior paint	litre	383.58
263	Exterior primer	Kg	52.00
264	Arcylic exterior paint	litre	307.72
265	Multi surface paint	litre	551.03
266	Special primer (C.W)	litre	157.44
267	Metal primer ( U.G )	litre	211.83
268	Pink primer for wood	litre	138.12
269	Red oxide Zinc chromate primer	litre	138.12
270	Spirit	litre	84.50
271	Shellac	Kg	350.66
272	Wall putty	Kg	35.00
273	Black japan paint	litre	160.30
274	Roofing paint for iron sheets in red colour	litre	193.22
275	Oil type wood preservative	litre	124.52
276	Plastic emulsion paint	litre	279.09
277	Synthetic enamel paint	litre	223.28
278	Aluminum paint	litre	193.22
279	Acid proof paint	litre	182.48
280	C.P brass chain with 32 mm dia rubber plug	Each	40.79
281	C.P brass chain with 40 mm dia rubber plug	Each	45.08
282	Premium Arcylic exterior paint	litre	400.75
283	Superior spar varnish	litre	221.84
284	Raj nagar Plain white marble 18 mm thick ( tabl rubbed and polish) slab area up to 0.50 sqm	Sqm	1123.53
285	Raj nagar Plain white marble 18 mm thick ( tabl rubbed and polish) slab area more than 0.50 sqm	Sqm	1209.41
286	Granite of any colour 18 mm thick ( slab area up to 0.50 sqm	Sqm	2862.50
287	Granite of any colour, 18 mm thick ( slab area above 0.50 sqm	Sqm	2934.06
288	8 mm thick marble tiles ( polished)Raj nagar	Sqm	589.68
289	8 mm thick granite stone tiles ( mirror polished of all shades	Sqm	1162.18
290	Concrete Jali 50 mm thick	Sqm	612.58
291	Concrete Jali 40 mm thick	Sqm	422.22
292	Concrete Jali 25 mm thick	Sqm	271.94
293	stand jally ( round)	Each	54.39
294	Top and Bottom rail	Each	357.81
295	charupadi	Each	25.76
296	Precast chequered cement tiles 22 mm thick	Sqm	399.50
297	Black colour dark shade pigment	Kg	80.80
298	Acid and alkali resistant tiles 300x300mm	Sqm	829.92
299	Acid proof cement	tonne	11866.40
300	Interlocking CC paver block 60 mm thick	Sqm	700.00
301	Bitumen blow type	tonne	64480.00
302	Galvanized steel barbed wire	Qntl	6760.00
303	Trunl buckle & straple	tonne	97.94
304	Link mesh 50x50 mm made of G.I wire dia 4mm	Sqm	407.4
305	Link mesh 50x50 mm made of ,PVC coated to outer dia 5 mm	Sqm	503.70
306	Wooden cleat	each	21.75
307	Screws & washers	cent	375.00
308	Orissssa type W.C pan 580 mm size	each	1014.00
309	P.V.C flushing Cistern 10 liters (low level )white with fittings,accessories and flush pipe	each	832.00

310	100 mm S.C.I trap with vent heel	each	410.00
311	Vitreous china lipped front urinal	each	598.00
312	P.V.C automatic flushing cistern 5 liter capacity	each	637.00
313	G.I Flush pipe and C.P brass spreader with connecting pipe single lipped	each	605.00
314	G.I Flush pipe and C.P brass spreader with connecting pipe two lipped urinals	each	1365.00
315	G.I Flush pipe and C.P brass spreader with connecting pipe three lipped urinals	each	1625.00
316	G.I Flush pipe and C.P brass spreader with connecting pipe four lipped urinals	each	2470.00
317	Cast iron trap 100 mm outlet 100 mm inlet	each	566.00
318	Air cpmressor 250 cfm with two leads for pneumatic cutters/hammers ( SDR 2013 )	Day	1900.00
319	Tractor with trolly ( DSR 2013 )	Day	1500.00
320	Joint cutting machine with 2-3 blades ( DSR 2013 )	Day	1000.00
321	Hand Grinder for mirror polish	Day	230.00
322	Floor Ginder machinr ( Granite )	Day	350.00
323	Spunyarn	Kg	52.00
324	Lumsum ( DSR 2013)	LS	1.73
325	Stainless steel wire guage (grade 304) aperture 1.4mm and 0.50mm dia wire	Sqm	1176.00
326	Aluminium tee chanel ( heavy duty) with rollers and stop end	Mtr	90.00
327	Auto hinges	Each	150.00
328	Screws 50 mm	Each	5.00
329	Brass cupboard lock 6 lever 40 mm size	Each	220.00
330	Telescopic drawer channel 300 mm long	Each	400.00
331	18 mm thick MDF board laminated	Sqm	1000.00
332	Aluminium maruthi handle 125mm	Each	150.00
333	Aluminium rod 32mm dia	Mtr	226.39
334	Aluminium brackets	Each	6.50
335	Miled steel rivets	Qntl	6240.00
336	Stainless steel grade hollow section	Kg	455.00
337	Stainless steel bolt	Kg	156.00
338	Chequarred cement concrete tiles 22mm thick	Sqm	705.00
339	Vitrified floor tiles 500x500 cm (kajaria equivalent)	Sqm	1599.00
340	Vitrified floor tiles 600x600 cm (kajaria equivalent)	Sqm	1725.00
341	Vitrified floor tiles 800x800 cm (kajaria equivalent)	Sqm	1850.00
342	Vitrified floor tiles 1000x1000 cm (kajaria equivalent)	Sqm	1958.00
343	Perpaint G.I roofing sheet 0.45mm thick	Sqm	587.50
344	Perpaint G.I ridge sheet 0.45mm thick	Mtr	159.79
345	Bamboo board 4mm thick	Sqm	408.00
346	White vitrous china pedastal type W.C pan with white soild plastic seat and lid with CP brass hinges and rubber buffers complete including flushing cistern with fittings size 775x370x640mm trap distance S 200/P 180 ( <b>Jaquar modal SLS WHT - 0208/0208P or equivalent</b> )	each	11037.00
347	White vitrous china wash basin 550x605x475mm with half pedastal ( <b>Jaquar modal FNS WHT - 1503 or equivalent</b> )	each	8433.10
348	Mirror superio glass 700x500 mm ( <b>cera modal no.5561 size 700x500mm</b> )	each	843.00
349	Orissssa type W.C pan 580 x440mm mm size ( <b>cera jhonson or equivalent</b> )	each	5850.00
350	Brass scrwes 30mm	100 nos	195.00

351	Zink chromate yellow primer	litre	115.00
352	Putty birla white or equivalent	Kg	15.00
353	Putty nerolac white or equivalent	Kg	13.00
354	Arcylic exterior paint ( nerolac premier or equivalent)	litre	193.70
355	Multi surface paint ( Berger, birla or equivalent)	litre	780.00
356	Multisurface paint ( Teflon coat Asian or equivalent)	litre	643.50
357	Metalic paint	litre	1950.00
358	Non metalic paint	litre	1350.00
359	Base coat of metalic and non metalic paint	litre	950.00
360	Tools of metalic & non metalic paint	set	800.00
361	metal design paint	litre	1001.00
362	Non- metalic design paint	litre	715.00
363	Arcylic emulsion voc contents less than 50gm	litre	423.80
364	Epoxy paint	litre	615.00
365	Melamin mat ( polish for wooden floor)	litre	403.00
366	Poly urthene mat	litre	851.50
367	straining bolts	each	79.50
368	Carriage of stone / CC blocks etc	Cum	277.96
369	Link mesh 25x25 mm made of G.I wire dia 8 guage	Sqm	611.00
370	Premix 1:3 ( Ag No 12/EE/Amini/2014-15)	Bag	384.50
371	Premix 1:6 ( Ag No.18/EE/Amini/2014-15)	Bag	379.00
372	Turn buckle	each	15.3
373	P.V.C low level flushing cistern 10 liters (white) with fittings ,accessories and flush pipe	each	1223.72
374	Stainless steel A ISI 304 labour room sink	each	43550.00
375	PVC Ceiling board	Sqm	225.96
376	Chicken mesh	Sqm	47.22
377	M.S Welded mesh 50x50mm	Sqm	51.25
378	Steel glazed door,window,ventilator,all members viz F7D,F4B,K11 and K12B etc..	Kg	83.20
379	Press steel door frame ( mild steel sheet 1.60 mm) profile "B"	Mtr	368.00
380	Single socket rain water pipe 75 mm dia	Mtr	93.60
381	Single socket rain water pipe 100 mm dia	Mtr	175.50
382	PVC half round eaves gutter 100 mm dia ( 10kg/sqcm)	Mtr	136.67
383	PVC half round eaves gutter 150 mm dia ( 10kg/sqcm)	Mtr	158.33
384	PVC half round eaves gutter 200 mm dia ( 10kg/sqcm)	Mtr	187.50
385	Non Asbestos high impact Polypropylene reinforced cement 6 mm corrugated sheet (IS 14871)	Mtr	979.16
386	Non Asbestos high impact Polypropylene reinforced cement 6 mm ridges sheet	Mtr	475.00
387	PVC ball valve 63 mm	each	312.00
388	PVC ball valve 50 mm	each	288.00
389	PVC ball valve 32 mm	each	245.00
390	PVC ball valve 25 mm	each	195.00
391	PTMT grating 100 mm ( circular type )	each	70.00
392	PTMT grating 125 mm ( circular type )	each	84.00
393	PTMT grating 150 mm (square type )	each	185.00
394	Health faucset 15mm	each	550.00
395	C.P brass angle cock 20 mm	each	350.00
396	C.P brass sink cock 20 mm	each	850.00
397	PTMT angle stop cock 15mm ( weighing not less than 85 gms)	each	250.00
398	PTMT swiwellling shower 15 mm	each	180.00
399	PTMT soap dish holder 138x102x75 mm ( weighing not less than 106 gms )	each	165.00

400	C.P wall mixture 15 mm	each	4176.00
401	Stainless steel kitchen sink with out drain board bowl deth 450x400x250 mm	each	1075.00
402	100 mm PVC. Grating for gully or Nahani trap	each	45.00
403	25 mm Mosquito proof coupling of the approved	each	60.00
404	600x120x5 mm glass shelf with anodised aluminium angle frame C.P. brass brackets & guard rail of standard size	each	400.00
405	C.P. brass toilet holder of standard size	each	325.00
406	Vitreous china toilet holder of standard size	each	250.00

<b>SH:-1. MORTARS ( M Sand )</b>			
<b><u>Item No</u></b>	<b><u>Specification</u></b>	<b><u>Unit</u></b>	<b><u>Rate</u></b>
1.6	Cement mortar 1:1	Cum	17862.51
1.7	Cement mortar 1:2	Cum	15695.27
1.8	Cement mortar 1:3	Cum	14815.49
1.9	Cement mortar 1:4	Cum	13268.85
1.10	Cement mortar 1:5	Cum	12436.05
1.11	Cement mortar 1:6	Cum	11722.22
<b>SH:-1A .MORTARS With Premix</b>			
1.11	Cement mortar 1:3	Cum	20040.32
1.12	Cement mortar 1:6	Cum	17503.88

<b>SH:-2.EARTH WORK</b>			
<b>Item No</b>	<b>Specification</b>	<b>Unit</b>	<b>Rate</b>
2.1	Surface dressing of the ground including removing vegetation and in equalities not exceeding 15cm deep and disposal of rubbish lead up to 50 metres and lift up to 1.5 metres	Sqm	35.97
2.2	Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed.		
2.2.1	All kinds of soil	Cum	445.60
2.3	Earth work in excavation/ by mechanical means (Hydraulic Excavator)/ manual means over areas (exceeding 30 cm in depth, 1.5m in width as well as-10 sqm on plan) including disposal of excavated earth, lead upto 50 m and lift upto 1.5 m, disposed earth to be levelled and neatly dressed.		
2.3.1	Ordinary rock	Cum	628.80
2.4	Earth work in excavation by mechanical means (Hydraulic Excavator )/ manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m		
	All kinds of soil.	Cum	275.35
2.4.1	Extra for every additional lift of 1.5 m or part thereof in.		
	All kind of soil	Cum	104.55
	Up to 1.50 mtr to 3.00 mtr ( A+B)	Cum	379.90
	Up to 3.00 mtr to 4.50 mtr (B+C)	Cum	484.45
	Up to 4.50 mtr to 6.00 mtr ( B+D)	Cum	589.00
2.4.2	Extra for every additional lift of 1.5 m or part thereof in.		
	Ordinary or hard rock.	Cum	187.30
	Up to 1.50 mtr to 3.00 mtr ( A+B)	Cum	462.65
	Up to 3.00 mtr to 4.50 mtr (B+C)	Cum	649.95
	Up to 4.50 mtr to 6.00 mtr ( B+D)	Cum	837.25
2.5	Earth work in excavation by manual means in foundation trenches or drains (not exceeding 1.5m in width or 10 Sq.m on plan) including dressing of sides and ramming of bottoms, lift upto 1.5m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.		
	Ordinary rock	Cum	531.75
2.6	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc layers not exceeding 20cm plinth, sides of foundations etc layers not exceeding 20cm and watering lead up to 50 mtr and lift up to 1.5 metres	Cum	252.65
2.70	Felling trees of girth (measured at a hight of 1 mtr above ground level ) including cutting of trunks and branches removing the roots and stacking of servicable materials and disposable opf unservicable materials .		
2.7.1	(a) Byond 30 cms and upto 60 cm in girth	Each	557.2

2.7.2	(b) Beyond 60 cms and upto 120 cm in girth	Each	2493.68
2.7.3	(b) Beyond 120 cms and upto 240 cm in girth	Each	11602.15
2.7.4	Felling trees of girth (measured at a height of 1 mtr above ground level) including cutting of trunks and branches removing the roots and stacking of servicable materials and disposable of unservicable materials ( Tree with Thorn like Muruk etc..)		
2.7.4	(b) Beyond 120 cms and upto 240 cm in girth	Each	31409.09
2.8	Excavating trenches of required width of pipes, cables, etc including excavation for sockets and dressing of sides, ramming of bottoms, depth upto 1.5 m including getting out the excavated soil and then returning the soil as required in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering etc. and depositing of surplus excavated soil as directed, with in lead od 50 m All kind of soil		
2.8.1	Pipes, cables etc not exceeding 80 mm dia	Mtr	249.50
2.8.2	Pipes, cables etc exceeding 80 mm dia but not exceeding 300 mm dia	Mtr	407.50
2.8.3	Pipes, cables etc exceeding 300 mm dia but not exceeding 600 mm dia	Mtr	636.15
2.9	Supplying and Filling Plinth with Red Mud under floors including watering ,ramming, consolidating and dressing complete	Cum	5120.90
2.10	Filling with Quarry waste/debris ( Dismantled materials issued by department) in trenches, plinth, sides of foundations etc layers not exceeding 20cm plinth, side od foundations etc layers not exceeding 20cm and watering lead up to 50 mtr and lift up to 1.50mtr including loading , transportation and unloading at site.	Cum	1140.80
2.11	Re- alingment of water supply pipe line like PVC HDPE ,Electrical cable, Telephonr cables etc.. along the road side	Mtr	34.85

<b>3. SH :- PLAIN CEMENT CONCRETE ( M. Sand )</b>			
<b>Item No</b>	<b>Specification</b>	<b>Unit</b>	<b>Rate</b>
3.1	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering --All work upto plinth level:		
3.1.1	1:1:2 ( 1 Cement: 1 coarse sand : 2 graded stone aggregate 20 mm nominal size)	Cum	20703.97
3.2	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering -All kind of works		
3.2.1	1:1.5:3 ( 1 Cement: 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	Cum	17861.44
3.3	Providing and laying cement concrete 1:2:4 ( 1 cement: 2 M.Sand: 4 granite chips 20 mm nominal size) foundation and plinth.	Cum	17233.53
3.4	Providing and laying cement concrete 1: 3:6 ( 1 cement: 3 M.Sand:6 granite chips ) all work up to plinth level.	Cum	16447.07
3.5	Providing and laying cement concrete 1: 4:8 ( 1 cement: 4 M.Sand: 8 granite chips ) foundation and plinth.Stone aggregate 40mm nominal size	Cum	15409.70
3.6	Providing and laying cement concrete 1: 5:10 ( 1 cement: 5 M.Sand: 10 granite chips ) foundation and plinth.Stone aggregate 40mm nominal size	Cum	14860.03
3.7	Providing and fixing at or near ground level precast cement concrete in kerbs, edgings etc. as per approved pattern and setting in position with cement mortar 1:3 (1 Cement: 3 M sand) including the cost of required centring, shuttering and finishing smooth with 6mm thick cement plaster 1:3 (1 cement: 3 fine sand) on exposed surfaces complete.		
3.7.1	1:2:4 ( 1 cement: 2 coarse sand : 4 graded stone aggregate 20mm nominal size).	Cum	17520.59
	<b><u>D.P.C 1:2:4</u></b>		
3.8	Providing and laying DPC 40 mm in cement concrete 1: 2 :4 ( 1 cement: 2 M.Sand: 4 granite chips 20mm nominal size)	Sqm	790.58
3.9	Providing and laying DPC 50 mm in cement concrete 1: 2 :4 ( 1 cement: 2 M.Sand: 4 granite chips 20mm nominal size)	Sqm	967.22



<b>SH:4. R.C.C WORK with M.sand</b>			
<b>Item No</b>	<b>Specification</b>	<b>Unit</b>	<b>Rate</b>
4.1	Reinforced cement concrete 1:1.5:3 ( 1 cement: 1.5 M.Sand: 3 granite chips 20mm nominal size) excluding cost of centring and shuttering and reinforcement All work up to plinth level.		
	Foundation footings bases of column etc, and mass concrete.	Cum	18583.90
4.2	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centring, shuttering, finishing and reinforcement - All work upto plinth level: 1:1:2 (1 cement: 1 coarse sand : 2 graded stone aggregate 20 mm nominal size).	Cum	21421.67
4.3	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centring, shuttering, finishing and reinforcement - All kind of work upto plinth level :1:2:4 (1 cement: 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	Cum	17955.99
4.4	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. upto floor five level excluding cost of centring, shuttering, finishing and reinforcement :1:1:2 (1 cement: 1 coarse sand : 2 graded stone aggregate 20 mm nominal size)	Cum	23707.34
4.5	Reinforced cement concrete work in (wall any thickness ) including attached pilasters, buttresses, plinth and string course, fillets, columns, pillars, piers, abutments, post and struts etc.. up to floor five level excluding cost of centering and shuttering finishing and reinforcement.		
	1:1.5:3 ( 1 cement :1.5 coarse sand :3 graded stone aggregate 20 mm nominal size	Cum	22876.50
4.6	Reinforced cement concrete work in beams, Suspended floors ,roofs, having slope up to 15 degree landings, shelves chajjas, lintels ,bands, plain window sills, staircase and spiral stair case up to floor five level excluding cost of centering and shuttering finishing and reinforcement. with 1:1.5:3 ( 1 cement :1.5 coarse sand:3 graded stone aggregate 20 mm nominal size )	Cum	21564.89
4.7	Cold twisted steel reinforcement for R.C.C. work including bending, binding and placing in position complete.	Kg	92.38
4.8	Providing precast cement concrete jalli 1:2:4 (1 cement 2 coarse river sand 4 graded stone aggregate 6mm nominal size) roughning cleaning fixing in cement mortar 1:3 (1 cement 3 fine river sand) etc. complete up to first floor level excluding plaster of the jam sills and soffits.		
4.8.1	<b>50mm thick</b>	Sqm	2033.70
4.8.2	<b>40mm thick</b>	Sqm	1654.38
4.8.3	<b>25mm thick</b>	Sqm	1460.36
4.9	Providing precast cement concrete Charupadi 1:1.5:3(1 cement 1.5 coarse river sand 3 graded stone aggregate 6mm nominal size) roughning cleaning fixing in cement mortar 1:3 (1 cement 3 fine river sand) etc. complete .	mtr	3280.23

4.10	Providing and fixing precast cement concrete 1:2:4 ( 1 cement: 2 M.Sand: 4 graded stone aggregate 20mm nominal size) set in position with cement mortar 1:2 (1 cement :2 fine sand) and finished smooth with 6mm thick cement plaster 1:3 (1 cement :3 fine sand) on exposed surfaces including centering and shuttering in -		
	(a) String courses, copings, bed plates anchor blocks, plain window sills and the like	Cum	27565.71
4.11	Providing throating or plastering drip and moulding to R.C.C chajjas	Mtr	65.68
4.12	Providing and fixing chicken mesh with cement concrete 1:1.5:3 ( 1 cement 1.5 M.sand and 3 baby chips 10 mm nominal size ) for ferro cement tank	Sqm	52.15
4.13	Reinforced cement concrete work in well-steining excluding the cost of centring,shuttering, finishing and reinforcement with 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 20 mm nominal size).	Cum	17303.22

**SH:4.CENTERING & SHUTTERING**

Item No	Specification	Unit	Rate
	Centring and shuttering including strutting, propping etc. and removal of form for :		
4.14.	Foundations, footings, bases of columns, etc. for mass concrete.	Sqm	441.08
	Walls (any thickness) including attached pilasters, buttresses, plinth and string	Sqm	910.40
	Suspended floors, roofs, landings, balconies and access platform.	Sqm	891.78
	Shelves (Cast in situ)	Sqm	892.43
	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	Sqm	671.95
	Columns, Pillars, Piers, Abutments, Posts and Struts.	Sqm	1052.67
	Stairs, (excluding landings) except spiral-staircases.	Sqm	878.25
	Spiral staircases (including landing).	Sqm	848.75
4.15.9	Centring and shuttering including strutting, propping etc. and removal of form for :Well steining	Sqm	367.72

<b>SH:- 5.BRICK WORK( with M. sand )</b>			
<b>Item No</b>	<b>Specification</b>	<b>Unit</b>	<b>Rate</b>
5.1	Brick work with modular bricks of class designation in foundation and plinth in C.M.1:6 (1Cement: 6 Metal sand)	Cum	17265.05
5.2	Brick work in super structure above plinth level upto floor five level	Cum	19300.39
5.3	Half brick work with modular bricks of class designation in foundation and plinth in C.M.1:4 (1Cement: 6 Metal sand)	Sqm	2188.07
5.4	Half brick masonry in super structure above plinth level upto floor five level cement mortar 1:4 ( 1 cement 4 Metal sand )	Sqm	2418.39

<b>SH:-6.STONE WORK With M.Sand</b>			
<b>Item No</b>	<b>Specification</b>	<b>Unit</b>	<b>Rate</b>
6.1	Casting of cement concrete solid blocks in cement concrete 1:2:2:6 (1 cement: 2 granite powder: 2 metal sand: 6 granite baby chips) with block casting machine installed at LPWD storeyard at Kavaratti including operation by daily maintenance of machine, curing of blocks and stacking as directed by the Engineer-in-Charge. (Size of blocks: 40cmx20cmx15cm)	cum	10789.43
6.2	Cement concrete block (machine moulded) masonry in in Foundation and plinth in CM 1:6 with blocks of size 40cmx20cmx15cm.	cum	15014.56
6.3	Cement concrete block (machine moulded) masonry in Superstructure above plinth level in CM 1:6 with blocks of size 40cmx20cmx15cm.	cum	15300.79
6.4	Random rubble masonry with hard stone in foundation and plinth including levellingup with cement concrete 1:6:12 (1 cement: 6 metal sand : 12 graded stone aggregate 20mm nominal size) at plinth level with :	cum	16426.75

SH:-7.WOOD WORK			
Item No	Specification	Unit	Rate
7.1	Providing wood work in frames of doors, windows, clerestory windows and other frames wrought, framed and fixed in position-I class Karimaruthu or equivalent ( hold fast lugs or dasg fastener shall be paid for separately )	cum	96386.05
7.2	Providing wood work in frames of false ceiling, partitions etc. sawn and put up in position :	cum	86457.09
7.3	Providing and fixing 35 mm thick panelled, glazed or panelled and glazed shutters for doors windows and clerestory windows including anodised aluminium butt hinges with necessary screws. First class Karimaruthu or equivalent ( Double leaf shettre)	sqm	3802.71
7.4	Providing and fixing 30 mm thick panelled, glazed or panelled and glazed shutters for doors windows and clerestory windows including anodised aluminium butt hinges with necessary screws. First class Karimaruthu or equivalent	sqm	3538.33
7.5	Providing and fixingpanelling or panelling and galzing in panelled or panelled and glazed shutters for doors,wndows and celestory windows (Areaof opening for panel inserts excluding portion insidegrooves or rebates to be measured).Panelling for panelled or panelled and glazed shutters 25 mm to 40 mm thick. Float glass panes		
#REF!	4 mm thick glass pane	sqm	2430.02
7.6	Providing and fixing Flush door shutters confirming to IS:2202 (part.I) decorative type,core of block board construction frame of first cladd hard wood and well matched firdt class teak 3 ply veneering with vertical grains or cross band s and face veneers on both faces of shutters		
#REF!	35 mm thick including ISI marked Stainless steel butt hinges with necessary screws	sqm	4674.75
7.7	Providing and fixing karimaruthu wood or equivalent 25 mm squre wooden bars at required spacing in wooden frames of windows and clerestory windows	metre	138.65
7.8	Providing 40 x5 mm Iron hold fast 40 cm long including fixing to frames with 10 mm dia bolts nuts , wooden plugs and embedding in cement concrete block of size 30 x10 x15 cm of mix 1:3:6 ( 1 cement : 3 river sand : 6 graded stone agrigate of 20 mm nominal size )	each	294.09
7.9	Providing and fixing 18 mm thick, 150 mm wide pelmet of coir veneer board ISI marked IS : 14842 - 2000, including top cover of 6 mm coir veneer board, nickel plated M.S. Pipe 20 mm dia (heavy type) curtain rod with nickel plated brackets including fixing with 25x3 mm M.S. Flat 10 cm long and rawl plug 50 mm long (designation 10 No.) etc., all complete	metre	931.09
7.10	Providing 50x50x50mm 2nd class teak wood plugs including cutting brick work and fixing in cement mortar 1:3 (1 cement: 3 fine sand) and making good the walls etc.	each	49.72

7.11	Providing and fixing curtain rods of 1.25 mm thick chromium plated brass plate,with two chromium plated brass brackets fixed with C.P. brass screws and wooden plugs, etc., wherever necessary complete :		
	20 mm dia.	metre	665.57
7.12	Providing and fixing nickel plated M.S. pipe curtain rods with nickel plated brackets:		
#REF!	20 mm dia (heavy type)	metre	203.60
7.13	Providing and fixing anodised Aluminium sliding door bolt anodised transparent or dyed to required color and shade with bolts , nuts and screws etc complete.		
7.13.1	300x16 mm	each	488.95
7.13.2	250x16 mm	each	426.6
7.13.3	200x10 mm	each	328.61
7.13.4	150x10 mm	each	307.82
7.14	Providing and fixing anodised Aluminium tower bolt (barral type) anodised transparent or dyed to required color and shade with bolts , nuts and screws etc complete.		
7.14.1	225x10mm	each	240.27
7.14.2	200x10 mm	each	215.33
7.14.3	150x10 mm	each	185.42
7.14.4	100x10 mm	each	155.77
7.15	Providing and fixing anodised Aluminium handle anodised transparent or dyed to required color and shade with bolts , nuts and screws etc complete.		
7.15.1	125 mm	each	156.79
7.15.2	100 mm	each	141.65
7.15.3	75 mm	each	121.65
7.16	Providing and fixing anodised Aluminium hooks and eyes anodised transparent or dyed to required color and shade with bolts , nuts and screws etc complete.		
7.16.1	200 mm	each	151.43
7.16.2	150 mm	each	139.80
7.17	Providing and fixing brass tower bolt (barral type) with necessarys screws etc complete.		
7.17.1	Brass tower bolt 250x10mm	each	452.52
7.17.2	Brass tower bolt 200x10mm	each	406.06
7.17.3	Brass tower bolt 150x10mm	each	327.93
7.17.4	Brass tower bolt 100x10mm	each	198.65
7.18	Providing and fixing brass handle with necessarys screws etc complete.		
7.18.1	Brass handlet 125 mm	each	324.42
7.18.2	Brass handlet 100 mm	each	299.12
7.18.3	Brass handlet 75 mm	each	212.68
7.19	Providing and fixing brass door latch with necessarys screws etc complete.		
7.19.1	Brass door latch 300x16x5 mm	each	1116.03
7.19.2	Brass door latch 250x16x5 mm	each	993.01
7.2	Providing and fixing Bright finished brass casement stay with necessary screws .		
7.20.1	300 mm weighing not less than 330 gms	each	330.14
7.20.2	250 mm weighing not less than 280 gms	each	254.6
7.20.3	200 mm weighing not less than 240 gms	each	234.64
7.21	Providing and fixing special quality Bright finished brass cup board or ward robe lock with four levers of approved quality with necessary screws etc.. Complete.	each	420.58

7.22	Providing and fixing Bright finished brass door stopper with rubber cushion & necessary screws .	each	125.08
7.23	Providing and fixing 50mm Bright finished brass cup board or wardrobe knob with necessary screws .	each	89.07
7.24	Providing and fixing 100mm Bright finished brass mortice latch and lock with 6 levers and a pair of lever handles with necessary screws .	each	1647.42
7.25	Providing and fixing Bright finished brass Hydraulic door closer with necessary fittings & screws .	each	1964.92
7.26	Providing and fixing M.S Grills of required pattern in frames of windows etc. with M.S flats square or round bars etc. including priming coat with approved steel primer all complete		
7.26.1	Fixed to steel windows by welding	Kg	220.02
7.26.2	Fixed to openings/wooden frames with rawl plugs screws etc	Kg	260.85
7.27	Providing and fixing fly proof stainless steel grade 304 wire gauge to window and clearstory windows using wire gauge with average width of aperture 1.4mm in both direction with wire dia 0.50mm all complete. With 2 nd class teak wood beading 62x19 mm	Sqm	2551.96
7.28	Fly proof stainless steel grade 304 wire gauge with 0.5 mm dia wire and 1.4 mm wide aperture with matching wood beading for door	Sqm	2526.54
7.29	Providing and fixing Aluminium curtain rods with Aluminium brackets: <b>20 mm dia (heavy type)</b>	Mtr	303.23
7.30	Providing and fixing Aluminium tee channel (heavy duty) with rollers and stop end in pelmets as curtain rod	Mtr	108.71
7.31	Providing and fixing Autocose hinges of single pivot in die-cast zinc of superior quality brand and manufacture	each	205.21
7.32	Providing and fixing Special quality bright finished brass cupboard or wardrobe locks with four levers of approved quality including necessary screws etc.. Complete 40 mm size	each	489.92
7.33	Providing and fixing Powder coated telescopic drawer channels 300 mm long with necessary screws etc... complete as per the direction of Engineer-in-charge.	each	488.63
7.34	Providing and fixing Pre-laminated medium density particle board exterior grade (Grade1) IS:14587:1998 marked, to frame, backing or studding with screws etc..( Frame, backing or studding to be paid separately) Pre-laminated with decorative lamination on both side exterior grade-1 MDF board 18 mm thick conforming to IS 14587	Sqm	1517.54
7.35	Providing and fixing M.S welded mesh 50x50x mm in wooden frame with necessary nails ( frame work paid by separately)	Sqm	356.28

SH:-7.PVC ITEMS			
Item No	Specification	Unit	Rate
7.36	Providing and fixing to existing door frames. 24 mm thick factory made PVC door shutters made of styles and rails of a UPVC hollow section of size 59x24 mm and wall thickness 2 mm $\pm$ 0.2 mm with inbuilt edging on both sides. The styles and rails mitred and joined at the corners by means of M.S. galvanised/plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 20x20 mm and 1 mm $\pm$ 0.1 mm wall thickness. The lock rail made up of 'H' section, a UPVC hollow section of size 100x24 mm and 2 mm $\pm$ 0.2 mm wall thickness fixed to the shutter styles by means of plastic/galvanised M.S. 'U' cleats. The shutter frame filled with a UPVC multi-chambered single panel of size not less than 620 mm, having overall thickness of 20 mm and 1 mm $\pm$ 0.1 mm wall thickness. The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutter).	sqm	4231.13
7.37	Providing and fixing to existing door frames. Providing and fixing to existing door frames. 30mm thick factory made Polyvinyl Chloride (PVC) door shutter made of styles and rails of a UPVC profile section of size 30mm x 60mm and wall thickness 2mm $\pm$ 0.2mm with inbuilt decorative moulding edging on one side. The styles and rails with plastic brackets of size 75x220mm mitre and welded at the corners. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 25x20mm and 1mm $\pm$ 0.1mm wall thickness. The lock rail made up of 'H' section, a UPVC profile section of size 30mm x 100mm and 2mm $\pm$ 0.2mm wall thickness welded to the shutter style with a UPVC profile section single panel of size not less than 620mm, having overall thickness of 20 mm and 1 mm $\pm$ 0.1 mm wall thickness with 20 mm panel beading of suitable size /Glass(4mm thick plain glass)/louver section, louver frame of suitable size, as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and bathroom door Shutter)	sqm	4480.48

7.38	<p>Providing and fixing to existing door frames. 25mm thick PVC flush door shutters upto 737mm width of colour and shade as approved by Engineer-in-charge made out of a one piece Multi chamber extruded PVC section of the size of 762mm X 25mm or less as per requirement with an average wall thickness of 1mm ± 0.3mm. PVC foam end cap of size 23x10mm are provided on both vertical edges to ensure the overall thickness of 25mm. An MS tube having dimensions 19mm x 19mm is inserted along the hinge side of the door. Core of the door shutter should be filled with High Density Polyurethane foam. The Top &amp; Bottom edges of the shutter are covered with an end-cap of the size 25mm X 11mm. Door shutter shall be reinforced with special polymeric reinforcements as per manufactures' specification and drawing to take up necessary hardware and fixtures. Stickers indicating the locations of hardware will be pasted at appropriate places</p>	sqm	4106.44
7.39	<p>Providing and fixing factory made P.V.C. door frame of size 50x47mm with a wall thickness of 5mm, made out of extruded 5mm rigid PVC foam sheet mitred at corners and joined with 2 Nos. of 150mm long brackets of 15x15mm M.S. square tube, the vertical door profiles to be reinforced with 19x19mm M.S. square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame. The door frame to be fixed to the wall using M.S. screws of 65/100mm size complete as per manufacturers specification and direction of Engineer-in-Charge.</p>	metre	712.85
7.40	<p>Providing and fixing Fiber Glass Reinforced plastic (FRP) Door Frames of cross-section 90mm x 45mm having single rebate of 32mm x 15mm to receive shutter of 30mm thickness .The laminate shall be molded with fire resistant grade unsaturated polyester resin and chopped mat .Doorframe laminate shall be 2mm thick and shall be filled with suitable wooden block in all the three legs. The frame shall be covered with fibreglass from all sides. MS stay shall be provided at the bottom to steady the frame.</p>	metre	762.72
7.41	<p>Providing and fixing to existing door frames.30 mm thick Glass Fibre Reinforced Plastic (FRP) panelled door shutter of required colour and approved brand and manufacture, made with fire - retardant grade unsaturated polyester resin, moulded to 3 mm thick FRP laminate for forming hollow rails and styles, with wooden frame and suitable blocks of seasoned wood inside at required places for fixing of fittings, cast monolithically with 5mm thick FRP laminate for panels confirming to TADS 6: 1993 and / or IS: 14856 - 2000 including fixing to frames.</p>	sqm	3902.58



SH:-8. STEEL WORK			
Item No	Specification	Unit	Rate
8.1	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete:	Kg	170.91
8.2	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2mm and braced with flat iron diagonals 20x5mm size with top and bottom rail of T-iron 40x40x6mm with 40mm dia, steel pulleys complete with bolts, nuts, locking arrangement, stoppers, handles, including applying a priming coat of approved steel primer.	sqm	12867.93
8.3	Supplying and fixing rolling shutters of approved make, made of required size M.S.laths interlocked together through their entire length and jointed together at the end by end locks mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete including the cost of providing and fixing necessary 27.5cm long wire springs grade No.2 and M.S. top cover of required thickness for rolling shutters		
8.3.1	80x1.25mm M.S. laths with 1.25 mm thick top cover.	sqm	3688.02
8.3.2	80x1.20 mm M.S. laths with 1.20 mm thick top cover	sqm	2994.38
8.3.3	80x0.90 mm M.S. laths with 0.90 mm thick top cover.	sqm	2905.45
8.3.4	Providing and fixing ball bearing for rolling shutters	Each	644.03
8.4	Steel work in built up tubular trusses including cutting, hoisting fixing in position and applying a priming coat of approved steel primer, welded and bolted including special shaped washers etc. complete.		
8.4.1	Hot finished welded type tubes	Kg	278.04
8.4.2	Hot finished seamless type tubes	Kg	286.96
8.4.3	Electric resistance or induction butt welded tubes.	Kg	326.99
8.5	Providing and fixing M.S. fan clamp type I or II of 16 mm dia M.S. bar bent to shape with hooked ends in R.C.C. slabs, beams during laying including painting the exposed portion of loop, all as per standard design complete.	Each	209.04
8.6	Providing and fixing M.S. round holding down with nuts and washer plates completes.	Kg	145.25
8.6.1	Providing and fixing bolts including nuts and washers complete.	Kg	202.56
8.7	Providing and fixing hand rail of approved size by welding etc. to steel ladder rail-ing, balcony railing and staircase railing including applying a priming coat of approved steel primer.-		
8.7.1	M.S. tube	Kg	266.99
8.7.2	E.R.W. tubes.	Kg	347.11
8.7.3	G.I Pipe	Kg	188.04

8.8	Providing and fixing stainless steel ( Grade304) railing made of Hollow tubes,channels,plates etc...includingwelding grinding,buffering,polishing and making curvature( wherever required) and fitting the same with necessary stainless steel nuts and bolts complete,i/c fixing the railing with necessary accessories & stainless steel dash fasteners,stainless steelbolts etc... of required size,on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge ( for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts,bolts,fasteners etc..)	Kg	833.94
8.90	Steel work welded in built up section / framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer usin'g structural steel etc. as required. In grating, frames, guard bar, ladder, railings, brackets,gates and similar works.	Kg	190.59
8.10	Providing and fixing factory made ISI marked steel glazed doors, windows and ventilators side /top /centre hung with beading and all members such as F7D,F4B,KIIB and K12 B etc. complete of standard rolled steel sections, joints mitred and flash butt welded and sash bars tenoned and rivetted including providing and fixing hinges pivots including priming coat of approved steel primer,but excluding the cost of other fittings per approved design ( Sectional weight of only steel members shall be measured for payment) Fixing with 15x3 mm lugs 10 cmembedded in .in cement concrete blocks 15x10x 10cm of CC1:3:6 ( 1 cement 3 M.sand 6 stone aggregate 20 mm nonminal size)	Kg	200.50
8.11	Providing and fixing pressed steel door frames confirming to IS: 4351 manufactured from commercial mild steel sheet of 1.25 mm thickness including hinges jamb, lock jamb, bead and if required angle threshold of mild steel angle of section 50x25mm,or base ties of 1.60mm pressed mild steel welded or rigidly fixed together by mechanical means, adjustable lugs with split end tail to each jamb including steel butt hinges 2.5mm thick with mortar guards, lock strike-plate and shock absorbers as specified and applying a coat of approved steel primer after pre-treatment of the surface as directed by Engineer-in-charge: <b>Profile B Fixed with adjustable lugs with split end tail to each jamb</b>	mtr	660.32

<b>SH:-9. FLOORING( with M.sand )</b>			
<b>Item No</b>	<b>Specification</b>	<b>Unit</b>	<b>Rate</b>
9.1	Cement concrete flooring 1:2:4 ( 1 cement, 2 metal sand,4 granite chips ) finished with floating coat of neat cement ,including cement slurry ,but excluding the cost of noising of steps etc...complete		
	<b>a) 40mm thick with 20 mm nominal size stone aggregate</b>	Sqm	1132.79
9.2	Cement plaster skirting (upto 30cm.height) with cement mortar 1:3 (1cement: 3 metal sand) finished with floating coat of neat cement including rounding of junctions with floor.		
		Sqm	750.25
9.3	Providing and fixing 1st quality ceramic glazed wall tiles confirming to IS:15622 ( thickness to be specified by the manufacture ) of approved make,in all colours,shades except burgundy ,bottle green,black of any size as approved by engineer-in-charge in skirting,risers of steps and dado over 12mm thick cement mortar 1:3 ( 1cement, 3 metal sand ) and joining with grey cement slurry @3.3 kg per sqm,including pointing in white cement mixed with pigment of matching shade complete.		
		Sqm	1642.54
9.4	Providing and fixing ceramic glazed floor tiles of size 300x300mm (thickness to be specified by the manufacture ) of first quality confirming to IS:15622 of approved make,in colours such as White ,ivory,Grey,Fume red brown,laid on 20 mm thick cement mortar 1:4 ( 1cement, 4 metal sand ) and joining with white cement and matching pigment etc... complete		
		Sqm	1741.77
9.5	Providing and laying vitrified floor tiles (premium quality ) in diffren sizes ( thickness to be specified by the manufacture ) with water absorbtion less than 0.08 % and confirming to IS: 15622 of approved make in all coulers and shades, laid 20mm thick cement mortar 1:4 ( 1 cement 4 metal sand ) including grouting the joints with white cement and matching pigments etc.. complete. ( flooring)		
	Size of tiles 100x1000 mm	Sqm	2472.26
9.6	Providing and laying vitrified (premium quality ) in diffren sizes ( thickness to be specified by the manufacture ) with water absorbtion less than 0.08 % and confirming to IS: 15622 of approved make in all coulers and shades, in skirting,riser of steps,over 12 mm thick bed of cement mortar 1:3 ( 1 cement 3 metal sand ) including grouting the joints with white cement and matching pigments etc.. complete.		
	Size of tiles 1000x1000 mm	Sqm	2472.15

9.7	Chequerred precast cement concrete tiles 22 mm thick in footpath & courtyard jointed with neat cement slurry mixed with pigment to match the shade of tiles including rubbing and cleaning etc. complete on 20 mm thick bed of cement mortar 1:4 (1 cement: 4 metal sand sand).		
	Dark shade using ordinary Cement	Sqm	1402.78
9.8	Providing and fixing 10mm thick acid and/or alkali resistant tiles of approved make and colour using acid and/or alkali resisting mortar bedding and joints filled with acid and/or alkali resisting cement as per IS : 4457 complete as per the direction of Engineer-in- Charge. In flooring on a bed of 10 mm thick mortar 1:4(1 acid proof cement: 4 metal sand).		
	Acid and alkali resistant tile.	Sqm	259.44
9.9	Providing and laying vitrified tiles in floor with different sizes ( thickness to be specified by the manufacture ) with water absorption less than 0.08 % and confirming to IS: 15622 of approved brand and manufacture, in all colours and shades, laid with cement based high polymer modified quick set tile adhesive ( water based ). <b>(Khajaria polished vitrified tiles or equivalent)</b>		
	Size of tiles 500x500 mm	Sqm	2753.47
9.10	Providing and laying vitrified tiles in floor with different sizes ( thickness to be specified by the manufacture ) with water absorption less than 0.08 % and confirming to IS: 15622 of approved brand and manufacture, in all colours and shades, laid with cement based high polymer modified quick set tile adhesive ( water based ). <b>(Khajaria polished vitrified tiles or equivalent)</b>		
	Size of tiles 600x600 mm	Sqm	2931.02
9.11	Providing and laying vitrified tiles in floor with different sizes ( thickness to be specified by the manufacture ) with water absorption less than 0.08 % and confirming to IS: 15622 of approved brand and manufacture, in all colours and shades, laid with cement based high polymer modified quick set tile adhesive ( water based ). <b>(Khajaria polished vitrified tiles or equivalent)</b>		
	Size of tiles 800x800 mm	Sqm	3079.83
9.12	Providing and laying vitrified tiles in floor with different sizes ( thickness to be specified by the manufacture ) with water absorption less than 0.08 % and confirming to IS: 15622 of approved brand and manufacture, in all colours and shades, laid with cement based high polymer modified quick set tile adhesive ( water based ). <b>(Khajaria polished vitrified tiles or equivalent)</b>		
	Size of tiles 1000x1000 mm	Sqm	3208.41
9.13	Providing and laying vitrified tiles in different sizes ( thickness to be specified by the manufacture ) with water absorption less than 0.08 % and confirming to IS: 15622 of approved brand and manufacture, in all colours and shades, in skirting , riser of steps,laid with cement based high polymer modified quick set tile adhesive ( water based ) <b>(Khajaria polished vitrified tiles or equivalent)</b>		

	Size of tiles 500x500 mm	Sqm	2923.29
9.14	Providing and laying vitrified tiles in different sizes ( thickness to be specified by the manufacture ) with water absorption less than 0.08 % and confirming to IS: 15622 of approved brand and manufacture, in all coulers and shades, in skirting , riser of steps,laid with cement based high polymer modifeid quick set tile adhesive ( water based ) <b>(Khajaria polished vitrified tiles or equivalent)</b>		
	Size of tiles 600x600 mm	Sqm	3073.30
9.15	Providing and laying vitrified tiles in different sizes ( thickness to be specified by the manufacture ) with water absorption less than 0.08 % and confirming to IS: 15622 of approved brand and manufacture, in all coulers and shades, in skirting , riser of steps,laid with cement based high polymer modifeid quick set tile adhesive ( water based ) <b>(Khajaria polished vitrified tiles or equivalent)</b>		
	Size of tiles 800x800 mm	Sqm	3222.12
9.16	Providing and laying vitrified tiles in different sizes ( thickness to be specified by the manufacture ) with water absorption less than 0.08 % and confirming to IS: 15622 of approved brand and manufacture, in all coulers and shades, in skirting , riser of steps,laid with cement based high polymer modifeid quick set tile adhesive ( water based ) <b>(Khajaria polished vitrified tiles or equivalent)</b>		
	Size of tiles 1000x1000 mm	Sqm	3350.69
9.17	Providing and laying Ceramic Tiles in floor with different sizes ( thickness to be specified by the manufacture ) with water absorption less than 0.08 % and confirming to IS: 15622 of approved brand and manufacture, in all coulers and shades, laid with cement based high polymer modifeid quick set tile adhesive ( water based ) <b>(Khajaria polished vitrified tiles or equivalent)</b>		
	Size of tiles 300x300 mm	Sqm	1720.80
9.18	Providing and laying Ceramic glazed wall tiles with different sizes ( thickness to be specified by the manufacture ) with water absorption less than 0.08 % and confirming to IS: 15622 of approved brand and manufacture, in all coulers and shades,in skirting , riser of steps,laid with cement based high polymer modifeid quick set tile adhesive ( water based ) <b>(Khajaria polished vitrified tiles or equivalent)</b> <b>300x300 mm</b>	Sqm	1718.24
9.19	Providing and laying vitrified floor tiles (premium quality) in different sizes ( thickness to be specified by the manufacture ) with water absorption less than 0.08 % and confirming to IS: 15622 of approved make in all coulers and shades, laid 20mm thick cement mortar 1:4 ( 1 cement 4 metal sand ) including grouting the joints with white cement and matching pigments etc.. complete. ( flooring) <b>(Khajaria polished vitrified tiles or equivalent)</b>		
	Size of tiles 500x500 mm	Sqm	2721.88

9.20	Providing and laying vitrified floor tiles (premium quality) in different sizes (thickness to be specified by the manufacture) with water absorption less than 0.08 % and conforming to IS: 15622 of approved make in all colors and shades, laid 20mm thick cement mortar 1:4 (1 cement 4 metal sand) including grouting the joints with white cement and matching pigments etc.. complete. (flooring) (Khajaria polished vitrified tiles or equivalent)		
	Size of tiles 600x600 mm	Sqm	2872.27
9.21	Providing and laying vitrified floor tiles (premium quality) in different sizes (thickness to be specified by the manufacture) with water absorption less than 0.08 % and conforming to IS: 15622 of approved make in all colors and shades, laid 20mm thick cement mortar 1:4 (1 cement 4 metal sand) including grouting the joints with white cement and matching pigments etc.. complete. (flooring) (Khajaria polished vitrified tiles or equivalent)		
	Size of tiles 800x800 mm	Sqm	3018.98
9.22	Providing and laying vitrified floor tiles (premium quality) in different sizes (thickness to be specified by the manufacture) with water absorption less than 0.08 % and conforming to IS: 15622 of approved make in all colors and shades, laid 20mm thick cement mortar 1:4 (1 cement 4 metal sand) including grouting the joints with white cement and matching pigments etc.. complete. (flooring)(Khajaria polished vitrified tiles or equivalent)		
	Size of tiles 1000x1000 mm	Sqm	3147.57
9.23	Providing and laying vitrified (premium quality) in different sizes (thickness to be specified by the manufacture) with water absorption less than 0.08 % and conforming to IS: 15622 of approved make in all colors and shades, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement 3 metal sand) including grouting the joints with white cement and matching pigments etc.. complete. (Khajaria polished vitrified tiles or equivalent)		
	Size of tiles 500x500 mm	Sqm	2709.96
9.24	Providing and laying vitrified (premium quality) in different sizes (thickness to be specified by the manufacture) with water absorption less than 0.08 % and conforming to IS: 15622 of approved make in all colors and shades, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement 3 metal sand) including grouting the joints with white cement and matching pigments etc.. complete. (Khajaria polished vitrified tiles or equivalent)		
	Size of tiles 600x600 mm	Sqm	2859.96
9.25	Providing and laying vitrified (premium quality) in different sizes (thickness to be specified by the manufacture) with water absorption less than 0.08 % and conforming to IS: 15622 of approved make in all colors and shades, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement 3 metal sand) including grouting the joints with white cement and matching pigments etc.. complete. (Khajaria polished vitrified tiles or equivalent)		
	Size of tiles 800x800 mm	Sqm	3004.73

9.26	Providing and laying vitrified (premium quality) in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622 of approved make in all colors and shades, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement 3 metal sand) including grouting the joints with white cement and matching pigments etc.. complete. (Khajaria polished vitrified tiles or equivalent)		
	Size of tiles 1000x1000 mm	Sqm	3137.36
9.26	Providing and fixing 10mm thick acid and/or alkali resistant tiles of approved make and colour using acid and/or alkali resisting mortar bedding and joints filled with acid and/or alkali resisting cement as per IS : 4457 complete as per the direction of Engineer-in- Charge. In flooring on a bed of 10 mm thick mortar 1:4(1 acid proof cement: 4 coarse sand) Acid and alkali resistant tile	Sqm	1954.24
9.27	25mm wooden planking, tongued and grooved in flooring including fixing with iron screws complete with :second class teak wood	Sqm	1406.42
9.28	38mm thick wood block flooring of first class teak wood laid over 25mm thick levelling layer of cement concrete 1:2:4 (1 cement: 2 coarse sand : 4 graded stone aggregate 10mm nominal size) to be paid separately coated with a thin layer of hot bitumen (blown type) @ 2.45 kg per sqm. including fixing blocks in position after dipping in hot bitumen (blown type) upto half depth, planed, levelled smooth and finished complete.	Sqm	7597.72
9.29	Cement concrete pavement with 1:2:4 (1 cement : 2 M. sand : 4 graded stone aggregate 20 mm nominal size) including finishing complete.	Cum	17953.88
9.30	Chequered precast cement concrete tiles 22 mm thick in footpath & courtyard jointed with neat cement slurry mixed with pigment to match the shade of tiles including rubbing and cleaning etc. complete on 20 mm thick bed of cement mortar 1:4 (1 cement: 4 metal sand sand).Dark shade using ordinary Cement	Sqm	1402.78
9.31	Providing and laying bitumen mastic wearing course (as per specifications) with industrial bitumen of grade 85/ 25 conforming to IS : 702, prepared by using mastic cooker and laid to required level and slope, including providing antiskid surface with bitumen precoated fine grained hard stone chipping of approved size at the rate of 0.005 cum per 10 sqm and at approximate spacing of 10 cm centre to centre in both directions, pressed into surface protruding 1 mm to 4 mm over mastic surface, including cleaning the surface, removal of debris etc. all complete. ( Considering bitumen using 10.2% as per MORTH specification). <b>25 mm thick</b>	Sqm	2122.45

9.32	Providing and laying bitumen mastic wearing course (as per specifications) with industrial bitumen of grade 85/ 25 conforming to IS : 702, prepared by using mastic cooker and laid to required level and slope,including providing antiskid surface with bitumen precoated fine grained hard stone chipping of approved size at the rate of 0.005 cum per 10 sqm and at approximate spacing of 10 cm centre to centre in both directions, pressed into surface protruding 1 mm to 4 mm over mastic surface, including cleaning the surface, removal of debris etc. all complete. ( Considering bitumen using 10.2% as per MORTH specification). <b>40 mm thick</b>	Sqm	3382.10
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### Labour Rate( Cement &M.sand issued by the department)

Item No	Specification	Unit	Rate
L.1	Providing and fixing 1st quality ceramic glazed wall tiles confirming to IS:15622 ( thickness to be specified by the manufacture ) of approved make,in all colours,shades except burgundy ,bottle green,black of any size as approved by engineer-in-charge in skirting,risers of steps and dado over 12mm thick cement mortar 1:3 ( 1cement, 3 metal sand ) and joining with grey cement slurry @3.3 kg per sqm,including pointing in white cement mixed with pigment of matching shade complete.	Sqm	1456.26
L.2	Providing and fixing ceramic glazed floor tiles of size 300x300mm (thickness to be specified by the manufacture ) of first quality confirming to IS:15622 of approved make,in colours such as White ,ivory,Grey,Fume red brown,laid on 20 mm thick cement mortar 1:4 ( 1cement, 4 metal sand ) and joining with white cement and matching pigment etc... complete.	Sqm	1469.78
L.3	Providing and laying vitrified floor tiles (premium quality ) in diffren sizes ( thickness to be specified by the manufacture ) with water absorbtion less than 0.08 % and confirming to IS: 15622 of approved make in all coulers and shades, laid 20mm thick cement mortar 1:4 ( 1 cement 4 metal sand ) including grouting the joints with white cement and matching pigments etc.. complete. ( flooring)	Sqm	2200.27
	Size of tiles 500x500 mm	Sqm	2200.27
L.4	Providing and laying vitrified (premium quality ) in diffren sizes ( thickness to be specified by the manufacture ) with water absorbtion less than 0.08 % and confirming to IS: 15622 of approved make in all coulers and shades, in skirting,riser of steps,over 12 mm thick bed of cement mortar 1:3 ( 1 cement 3 metal sand ) including grouting the joints with white cement and matching pigments etc.. complete.	Sqm	2314.92
	Size of tiles 500x500 mm	Sqm	2314.92
L.5	Chequerred precast cement concrete tiles 22 mm thick in footpath & courtyard jointed with neat cement slurry mixed with pigment to match the shade of tiles including rubbing and cleaning etc. complete on 20 mm thick bed of cement mortar 1:4 (1 cement: 4 metal sand sand).Dark shade using ordinary Cement	Sqm	1034.818
L.6	Providing and laying vitrified floor tiles (premium quality ) in diffren sizes ( thickness to be specified by the manufacture ) with water absorbtion less than 0.08 % and confirming to IS: 15622 of approved make in all coulers and shades, laid 20mm thick cement mortar 1:4 ( 1 cement 4 metal sand ) including grouting the joints with white cement and matching pigments etc.. complete. ( flooring) <b>(Khajaria polished vitrified tiles or equivalent)</b>	Sqm	2399.77
	Size of tiles 500x500 mm	Sqm	2399.77

L.7 Providing and laying vitrified floor tiles (premium quality) in different sizes (thickness to be specified by the manufacture) with water absorption less than 0.08 % and confirming to IS: 15622 of approved make in all colors and shades, laid 20mm thick cement mortar 1:4 (1 cement 4 metal sand) including grouting the joints with white cement and matching pigments etc.. complete. (flooring) (Khajaria polished vitrified tiles or equivalent)

Size of tiles 600x600 mm Sqm 2553.82

L.8 Providing and laying vitrified floor tiles (premium quality) in different sizes (thickness to be specified by the manufacture) with water absorption less than 0.08 % and confirming to IS: 15622 of approved make in all colors and shades, laid 20mm thick cement mortar 1:4 (1 cement 4 metal sand) including grouting the joints with white cement and matching pigments etc.. complete. (flooring) (Khajaria polished vitrified tiles or equivalent)

Size of tiles 800x800 mm Sqm 2700.53

L.9 Providing and laying vitrified floor tiles (premium quality) in different sizes (thickness to be specified by the manufacture) with water absorption less than 0.08 % and confirming to IS: 15622 of approved make in all colors and shades, laid 20mm thick cement mortar 1:4 (1 cement 4 metal sand) including grouting the joints with white cement and matching pigments etc.. complete. (flooring)(Khajaria polished vitrified tiles or equivalent)

Size of tiles 1000x1000 mm Sqm 2829.12

L.10 Providing and laying vitrified (premium quality) in different sizes (thickness to be specified by the manufacture) with water absorption less than 0.08 % and confirming to IS: 15622 of approved make in all colors and shades, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement 3 metal sand) including grouting the joints with white cement and matching pigments etc.. complete. (Khajaria polished vitrified tiles or equivalent)

Size of tiles 500x500 mm Sqm 2502.54

L.11 Providing and laying vitrified (premium quality) in different sizes (thickness to be specified by the manufacture) with water absorption less than 0.08 % and confirming to IS: 15622 of approved make in all colors and shades, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement 3 metal sand) including grouting the joints with white cement and matching pigments etc.. complete. (Khajaria polished vitrified tiles or equivalent)

Size of tiles 600x600 mm Sqm 2652.54

L.12 Providing and laying vitrified (premium quality) in different sizes (thickness to be specified by the manufacture) with water absorption less than 0.08 % and confirming to IS: 15622 of approved make in all colors and shades, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement 3 metal sand) including grouting the joints with white cement and matching pigments etc.. complete. (Khajaria polished vitrified tiles or equivalent)

Size of tiles 800x800 mm Sqm 2797.31

L.13 Providing and laying vitrified (premium quality) in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08 % and conforming to IS: 15622 of approved make in all colors and shades, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement 3 metal sand) including grouting the joints with white cement and matching pigments etc.. complete. (Khajaria polished vitrified tiles or equivalent)

Size of tiles 1000x1000 mm

Sqm

2929.94

SH :-10. ROOFING			
Item No	Specification	Unit	Rate
10.1	Providing corrugated G.S. sheet roofing including vertical/curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead and including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete upto any pitch in horizontal/ vertical or curved surfaces) excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.		
10.1.1	1.00mm thick with zinc coating not less than 275gm/m <sup>2</sup>	sqm	1743.08
10.1.2	0.80mm thick with zinc coating not less than 275gm/m <sup>2</sup>	sqm	1492.02
10.1.3	0.63 mm thick with zinc coating not less than 275gm/sqm	sqm	1278.27
10.2	Providing ridges or hips of width 60 cm over all width plain G.S. sheet fixed with polymer coated J. or L hooks, bolts and nuts 8 mm dia. G.I. limpet and bitumen washers complete.		
10.2.1	0.80mm thick with zinc coating not less than 275gm/m <sup>2</sup>	sqm	1157.17
10.2.2	0.63mm thick with zinc coating not less than 275gm/m <sup>2</sup>	metre	1047.54
10.3	Providing and laying pressed clay tiles (as per approved pattern 20 mm nominal thickness and of approved size) on roofs jointed with cement mortar 1:4 (1 cement:4 coarse sand) mixed with 2% integral water proofing compound laid over a bed of 20 mm thick cement mortar 1:4(1 cement: 4 coarse sand) and finished neat complete.	sqm	1132.45
10.4	Providing and fixing insulating board ceiling of approved quality with necessary nails etc. complete (framework to be paid separately):		
10.4.1	<b>Natural colour insulating board 12 mm thick</b>	sqm	1261.78
10.4.2	Providing and fixing insulating board ceiling of approved quality with necessary nails etc. complete (frame work to be paid separately):		
	White face insulating board 12 mm thick	sqm	1408.07
10.5	Providing and fixing flat pressed 3 layer medium density particle board or graded particle board (Grade I) IS: 3087 marked in ceiling with necessary nails etc. complete (frame work to be paid separately):		
10.5.1	<b>12 mm thick</b>	sqm	1325.25

10.6	Providing and fixing at all height false ceiling including providing and fixing of frame work made of special sections power pressed from M.S. sheet and galvanised in accordance with zinc coating of grade 350 as per IS : 277 and consisting of angle cleats of size 25mm wide x 1.6mm thick with flanges of 22mm and 37mm at 1200mm centre to centre one flange fixed to the ceiling with dash fastener 12.5mm dia x 40mm long with 6mm dia bolts to the angle hangers of clips made out of 2.64mm dia x 230mm long G.I. wire at every junction including fixing the gypsum board with ceiling section and perimeter channels 0.5mm thick 27mm high having flanges of 20mm and 30mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450mm centre to centre with 25mm long drive-all screws @ 230mm interval including jointing and fixing to a flush finish of tapered and square edges of the board with recommended filler, jointing tapes, finisher and two coats of primer suitable for board as per manufactures specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed all complete as per drawing and specification and direction of the Engineer -in-charge but excluding the cost of painting with:		
10.6.1	12.5 mm thick tapered edge gypsum board conforming to IS: 2095-Part I,	sqm	1747.12
10.6.2	12.5 mm thick tapered edge gypsum fire resistant board conforming to IS: 2095- Part I,	sqm	1885.45
10.6.3	12.5 mm thick tapered edge gypsum moisture resistant board	sqm	1966.53
10.7	Providing & fixing on roof pressed clay tile (Mangalor tile of 20 mm nominal thickness and of approved size and as per approved pattern sfeel frame work complete (steel frame work to be paid separately)	sqm	575.36
10.8	Providing & laying on roof pressed clay tile ridge (Mangalore tile) of 20mm thickness and of approved pattern on steel frame work complete (sfeel frame work to be paid separately)	sqm	243.80
10.9	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS :5382 leaving 10 mm gap for thermal expansion, (i) Single socketed pipes 75 mm dia	metre	249.56
10.10	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS :5382 leaving 10 mm gap for thermal expansion, (i) Single socketed pipes 110 mm dia	metre	380.09
10.11	Providing Aluminium sheet roofing fixed with galvnized iron Jor L hooks and 8mm dia C.I plain bitumen washers complete excluding the cost of purlins, rafters and trusses corrugated sheet 0.56mm thick.	Sqm.	1402.73

10.12	Providing ridges or hips in Aluminium sheet roofing with G.I /J or L hooks bolts and nuts 8 mm dia G.I plain bitumen washers complete. 0.56mm thick.	Sqm.	1224.87
10.13	Providing and fixing 4mm Bamboo board ceiling of approved quality with necessary nails etc. complete (frame work to be paid separately): Bamboo board 4mm thick	Sqm	992.78
10.14	Providing and fixing PVC board ceiling of approved quality with necessary fittings for fixing PVC ceiling materials with necessary screws etc..	sqm	760.20
10.15	Providing non-asbestos high impact Polypropylene reinforced cement 6 mm thick corrugated sheets (As per IS: 14871) roofing upto any pitch and fixing with polymer coated J, or L hooks, bolts and nuts 8mm dia. G.I. plain and bitumen washers or with self drilling fastener and EPDM washers etc. complete excluding the cost of purlins, rafters and trusses corrugated sheets and including cutting to size and shape wherever required	sqm	1384.70
10.16	Providing and fixing ridges and hips in non-asbestos fibre cement high impact polypropylene reinforced roofing with suitable fixing accessories or self drilling fastener and EPDM washer etc. complete.Corrugated serrated adjustable ridges	metre	771.30
10.17	Providing and fixing PVC pipe half round eaves gutter with M.S brackets including bolts and nuts and necessary fitting as per approved brand and manufacture etc ..complete 100 mm (10kg/sqcms)	metre	365.98
10.18	Providing and fixing PVC pipe half round eaves gutter with M.S brackets including bolts and nuts and necessary fitting as per approved brand and manufacture etc ..complete 150 mm (10kg/sqcms)	metre	398.68
10.19	Providing and fixing PVC pipe half round eaves gutter with M.S brackets including bolts and nuts and necessary fitting as per approved brand and manufacture etc ..complete 200 mm (10kg/sqcms)	metre	442.73

**SH:-11. FINISHING ( Plastering with Msand)**

Item No	Specification	Unit	Rate
11.8	6mm cement plaster to ceiling 1:3(1cement :3 metal sand)	Sqm	364.11
11.9	12mm cement plaster 1:4(1cement :4 metal sand)	Sqm	467.37
11.10	12mm cement plaster 1:6 (1cement :6 metal sand)	Sqm	470.42
11.11	15mm cement plaster 1:3 (1cement :3 metal sand)	Sqm	809.12
11.12	15mm cement plaster 1:6 (1cement :6 metal sand) on rough side of single or half brick wall	Sqm	517.36
11.13	12mm cement plaster 1:3 (1cement :3 metal sand) finished with floating coat of neat cement	Sqm	673.84
<b>Plastering With Premix</b>			
11.14	6mm cement plaster to ceiling with premix 1:3	Sqm	365.90
11.15	12mm cement plaster with premix1:6	Sqm	499.56
11.16	15mm cement plaster with premix 1:6	Sqm	585.29
11.17	12mm cement plaster with premix 1:3	Sqm	804.62

**SH:- PAINTING**

11.18	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface.Water thinnable cement primer	Sqm	91.82
11.19	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade.New work ( two or more coats) over and including priming coat with water thinnable cement primer	Sqm	227.12
11.20	Distempering with 1st quality arcylic washable distemper ( ready mixed )of approved brand and manufacture of required shade and colour complete as per manufactures specification.Two or more coats on new work.	Sqm	125.06
11.21	Finishing wall with water proofing cement paint of approved brand and manufacture of required shade on new work (two or more coats applied @3.84Kg/10 sqm)	Sqm	134.54
11.22	Finishing wall with texture exterior paint of required shade on new work (two or more coats applied @3.28ltr/10 sqm) over including priming coat of exterior primer applied @ 2.20 kg/10 sqm	Sqm	285.01
11.23	Finishing wall with Arcylic smooth exterior paint of required shade on new work (two or more coats applied @1.67ltr/10 sqm) over including priming coat of exterior primer applied @ 2.20 kg/10 sqm	Sqm	198.59
11.24	Finishing with Deluxe Multi surface paint system for interiors and exteriors using primer as per manufactures specifications two or more coats applied on walls @1.25ltr/10 sqm) over including priming coat of special primer applied @ 0.75 ltr/10 sqm	Sqm	219.31
11.25	Painting Wood work with Deluxe Multi surface paintto give an even shade.Two or more coats applied on @0.90ltr/10 sqm) over under coat of primer applied @ 0.75 ltr/10 sqm of approved and manufacture	Sqm	196.91
11.26	Painting Steel work with Deluxe Multi surface paintto give an even shade.Two or more coats applied on @0.90ltr/10 sqm) over under coat of primer applied @ 0.80 ltr/10 sqm of approved and manufacture	Sqm	202.88

11.27	Applying priming coat with ready mixed pink or grey primer of approved brand and manufacture on wood work ( hard and soft wood )	Sqm	78.35
11.28	Applying priming coat with ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron /steel works	Sqm	70.87
11.29	Finishing with with Epoxy paint (two or more coats) at all locations preped and applied as per manufacture's specifications including appropriate priming coat ,preperations of surface,etc.. complete on steel works.	Sqm	280.47
11.30	French spirit polishing f on a new work ( two or more coats ) including a coat of wood filler with ready mixed polish of approved brand and manufacture.	Sqm	442.12
11.31	Providing and applying white cement based of average thickness 1mm of approved brand and manufacture, over plastered surface to prepare the surface even and smooth complete.	Sqm	156.95
11.32	Lettering with black japan paint of approved brand and manufacture	Per letter p er cms hight	5.90
11.33	Providing and applying plaster of paris putty of 2mm thickness over plastered surface to prepare the surface even and smooth complete. <b>(Birla White or equivalent).</b>	Sqm	237.42
11.34	Providing and applying wall putty of 2mm thickness over plastered surface to prepare the surface even and smooth complete. <b>(Nerolac or equivalent).</b>	Sqm	290.84
11.35	Painting Wood work with Deluxe Multi surface paintto give an even shade.Two or more coats applied on @0.90ltr/10 sqm) over under coat of primer applied @ 0.75 ltr/10 sqm of approved and manufacture <b>(Berger/Birla or equivalent)</b>	Sqm	198.77
11.36	Finishing with Deluxe Multi surface paint system for interiors and exteriors using primer as per manufactures specifications two or more coats applied with <b>Teflon coated Royal coated)</b> on walls @1.25ltr/10 sqm) over including priming coat of special primer applied @ 0.75 ltr/10 sqm. <b>(Asian Paint or equivalent)</b>	Sqm	210.72
11.37	Finishing wall with Arcylic smooth exterior paint of required shade on new work (two or more coats applied @1.67ltr/10 sqm) over including priming coat of exterior primer applied @ 2.20 kg/10 sqm. <b>(Nerolac paint premier or equivalent). Exterior</b>	Sqm	154.41
11.38	Wall painting with acrylic emulsion paint, having VOC (Volatile Organic Compound ) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour. <b>Two coat</b>	Sqm	156.28
11.39	Applying one coat of white cement of approved brand and manufacture on wall surface.	Sqm	45.03



<b>SH:- 12.WATER SUPPLY</b>			
<b>Item No</b>	<b>Specification</b>	<b>Unit</b>	<b>Rate</b>
12	Providing and fixing nominal gauge O.P. pipes of approved quality complete with special O.P. fittings ( of approved make) including trunching and refilling etc internal works		
12.1	<b>15 mm nominal bore</b>	Metre	299.21
12.1.2	20 mm nominal bore	Metre	366.27
12.1.3	25 mm nominal bore	Metre	422.52
12.1.4	32 mm nominal bore	Metre	551.00
12.1.5	40 mm nominal bore	Metre	686.35
12.1.6	50 mm nominal bore	Metre	723.10
12.2	Providing and fixing nominal gauge O.P. pipes of approved quality complete with special O.P. fittings ( of approved make) including trunching and refilling etc External works		
12.2.1	15 mm nominal bore	Metre	273.87
12.2.2	20 mm nominal bore	Metre	321.42
12.2.3	25 mm nominal bore	Metre	358.16
12.2.4	32 mm nominal bore	Metre	451.08
12.2.5	40 mm nominal bore	Metre	539.33
12.2.6	50 mm nominal bore	Metre	576.09
12.3	Providing and fixing nominal guage PVC Pipe of approved quality complete with special flang compression type fittings including trenching and re filling etc. Internal work		
12.3.1	110 mm nominal bore ( 6 kg/sqcms)	Metre	794.28
12.3.2	90 mm nominal bore ( 6 kg/sqcms)	Metre	751.05
12.3.3	75 mm nominal bore ( 6 kg/sqcms)	Metre	664.60
12.3.4	50 mm nominal bore ( 6 kg/sqcms)	Metre	560.87
12.3.5	40 mm nominal bore ( 6 kg/sqcms)	Metre	451.28
12.3.6	32 mm nominal bore ( 6 kg/sqcms)	Metre	346.52
12.3.7	25 mm nominal bore ( 6 kg/sqcms)	Metre	268.69
12.4	Providing and fixing nominal guage PVC Pipe of approved quality complete with special flang compression type fittings including trenching and re filling etc. External work		
12.4.1	25 mm nominal bore	Metre	265.60
12.4.2	32 mm nominal bore	Metre	315.31
12.4.3	40 mm nominal bore	Metre	372.94
12.4.5	50 mm nominal bore	Metre	413.99
12.4.6	63 mm nominal bore	Metre	523.47
12.4.7	75 mm nominal bore	Metre	566.68
12.4.8	90 mm nominal bore	Metre	734.96
12.4.9	110 mm nominal bore	Metre	778.19
12.5	Providing and fixing C.P. Brass bib cock of approved quality and manufacture complete.		
12.5.1	15 mm nominal bore	Each	385.25
12.5.2	20 mm nominal bore	Each	507.02
12.6	Providing and fixing C.P. Brass stopcook of approved quality and manufacture complete.		
12.6.1	15 mm nominal bore	Each	385.25
12.6.2	20 mm nominal bore	Each	507.02
12.7	Providing and fixing G.M. full way wheel valve of approved quality and manufacture complete.		
12.7.1	25 mm nominal bore	Each	725.40

12.7.2	32 mm nominal bore	Each	839.12
12.7.3	40 mm nominal bore	Each	1165.92
12.7.4	50 mm nominal bore	Each	1401.25
12.8	Providing and fixing ball valve ( brass ) of approved quality and manufacture complete.		
12.8.1	15 mm nominal bore	Each	337.61
12.8.2	20 mm nominal bore	Each	469.66
12.8.3	25 mm nominal bore	Each	671.57
12.9.1	Providing and fixing C.P. shower rose with 15 to 20mm inlet, 100 mm dia.	Each	387.62
12.9.2	Providing and fixing C.P. shower rose with 15 to 20mm inlet, 150 mm dia.	Each	448.42
12.10	Providing and placing sintex tank on terrace ( at floor level ) polythene water storage tank ISI : 12701 marked,with cover and suitable locking arrangement and making necessary holes for inlet ,outlet and over flow pipe but without fittings and the base support for tank	Litre	12.52
12.10.1	(a) 1000 liter capacity	each	12520.00
12.10.2	(b) 500 liter capacity	Each	6260.00
12.11.1	Providing and fixing C.P. Brass bib cock of approved quality coforming to IS:8931.		
	15 mm nominal bore	Each	679.89
12.12	Providing and fixing C.P. Brass long nose bib cock of approved quality coforming to IS standard and weighing not less than 810 gms		
12.12.1	15 mm nominal bore	Each	722.55
12.13	Providing and fixing C.P. Brass stop cock ( concealed ) of standard design and of approved quality coforming to IS :8931		
12.13.1	15 mm nominal bore	Each	729.77
12.14	Providing and fixing C.P. Brass angle valve for basin mixer and geyser points of approved quality coforming to IS :8931		
12.14.1	15 mm nominal bore	Each	812.36
12.15.1	Providing and fixing PTMT bib cock of approved quality and colour		
	15 mm nominal bore, 86 mm long ,weighing not less than 88 gms	Each	248.93
12.15.2	15 mm nominal bore, 122 mm long ,weighing not less than 99 gms	Each	312.10
12.15.3	15 mm nominal bore, 165 mm long ,weighing not less than 110 gms	Each	345.35
12.16	Providing and fixing PTMT stop cock of approved quality and colour		
12.16.1	15 mm nominal bore, 86 mm long ,weighing not less than 88 gms	Each	224.00
12.16.2	20 mm nominal bore, 89 mm long ,weighing not less than 88 gms	Each	302.13
12.7.1	Providing and fixing PTMT push cock of approved quality and colour		
	15 mm nominal bore, 98 mm long ,weighing not less than 75 gms	Each	194.06

<b>SH:- 12.WATER SUPPLY ( CPVC )</b>			
<b>Item No</b>	<b>Specification</b>	<b>Unit</b>	<b>Rate</b>
12.18	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. (Concealed work including cutting chases and making good the walls etc.,)		
12.18.1	<b>15 mm nominal outer dia .Pipes.</b>	Metre	626.98
12.18.2	<b>20 mm nominal outer dia .Pipes.</b>	Metre	667.69
12.18.3	<b>25 mm nominal outer dia .Pipes.</b>	Metre	765.15
12.18.4	<b>32 mm nominal outer dia .Pipes.</b>	Metre	871.34
12.19	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings, this included jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. (External work).		
12.19.1	<b>15 mm nominal outer dia .Pipes.</b>	Metre	313.86
12.19.2	<b>20 mm nominal outer dia .Pipes.</b>	Metre	344.10
12.19.3	<b>25 mm nominal outer dia .Pipes.</b>	Metre	432.01
12.19.4	<b>32 mm nominal outer dia .Pipes.</b>	Metre	510.89
12.19.5	<b>40 mm nominal outer dia .Pipes.</b>	Metre	638.75
12.19.6	<b>50 mm nominal outer dia .Pipes.</b>	Metre	751.41
12.20	Cutting holes upto 15x15 cm in R.C.C. floors and roofs for passing drain pipe etc. and repairing the hole after insertion of drain pipe etc. with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including finishing complete so as to make it leak proof.	Each hole	467.61
12.21	Making chases upto 7.5x7.5 cm in walls including making good and finishing with matching surface after housing G.I. pipe etc	Metre	240.01
12.22.1	Providing and fixing ball valve ( PVC ) of approved quality and manufacture complete.63 mm nominal bore	Each	394.78
12.22.2	Providing and fixing ball valve ( PVC ) of approved quality and manufacture complete.50 mm nominal bore	Each	364.29
12.22.3	Providing and fixing ball valve ( PVC ) of approved quality and manufacture complete.32 mm nominal bore	Each	309.08
12.22.4	Providing and fixing ball valve ( PVC ) of approved quality and manufacture complete.25 mm nominal bore	Each	248.18
12.23.1	Providing and fixing PTMT grating of approved quality and colour.Circular type.		
	100 mm nominal dia.	Each	89.66
12.23.2	Providing and fixing PTMT grating of approved quality and colour.Circular type.		
	125 mm nominal dia with 25 mm waste hole.	Each	105.93
12.23.4	Providing and fixing PTMT grating of approved quality and colour.Rectangular type with openable circular lid.		

	150 mm nominal size square 100 mm diameter of the inner hinged round grating.	Each	223.50
12.24	Providing and fixing health faucet of approved quality and manufacture complete.	Each	657.89
12.25.1	Providing and fixing CP brass angle cock of approved quality and manufacture complete.20 mm	Each	425.59
12.25.2	Providing and fixing CP brass angle cock of approved quality and manufacture complete.15 mm	Each	379.13
12.26	Providing and fixing CP brass Sink cock of approved quality and manufacture complete.20 mm	Each	1006.9
12.27	Providing and fixing PTMT angle stop cock 15 mm nominal bore, weighing not less than 85gms.	Each	306.57
12.28	Providing and fixing PTMT swivelling shower, 15 mm nominal bore, weighing not less than 40gms.	Each	222.65
12.29	Providing and fixing PTMT soap Dish Holder having length of 138mm, breadth 102mm, height of 75mm with concealed fitting arrangements weighing not less than 106 gms.	Each	205.23
12.30	Providing and fixing CP wall mixture tap for hot and cold water of standard design and of approved quality and manufacture complete.15 mm	Each	5571.25

SH:13.SANTORY			
Item No	Specification	Unit	Rate
13	Providing and fixing white vitrous China water closet Pedestal pan (European) type WC pans with white plastic seat and lid and rubber buffers, 15 white vitrous China low level flushing system of approved make with fittings and brackets 40mm flush bend, 20mm over flow pipe with complete including cutting and making good the walls and floors where required.		
13.1	White EWC pan with plastic seat and lid	Each	7213.79
13.2	Providing and fixing white vitrous China wash basin with RS or CI brackets painted white, 15mm C.P brass pillar tap and C.P brass chain and rubber plug 32mm C.P. brass waste of standrad pattern 32mm diametre and waste pipe complete including cutting and making good the walls and floors where required.		
13.2.1	White vitreous China Flat back wash basin 550x400mm with one 15mm C.P. brass pillar tap.	Each	3358.51
13.3	Providing and fixing white vitrous China kitchen sink with CI brackets painted white, 15mm C.P brass pillar tap and C.P brass chain and rubber plug 40mm brass waste of standrad pattern 40mm diametre and waste pipe complete including cutting and making good the walls and floors where required.		
13.3.1	White gazed fire clay kitchen sink size 600x450x250mm	Each	4695.19
13.4	Providing and fixing Stailless steel A ISI 304 ( 18/8) kitchen sink asper IS 13983 with CI brackets stainless steel plug 40 mm ,including painting of fittings and brackets, cutting and making good the walls where required.		
13.4.1	Kitchen sink with drain board 510x1040 mm bowl deth 250 mm	Each	11118.76
13.5	Providing and fixing white vitrous China laboratory sink with CI brackets painted white, 15mm C.P bras pillar tap and C.P brass chain and rubber plug 40mm brass waste of standrad pattern 40mm diametre and waste pipe complete including cutting and making good the walls where required.		
	Sink size 450x300x150mm	Each	4052.24
13.6	Providing and fixing 600x450mm mirror of superior glass (approved quality) complete with 6mm thick asbestose sheet ground fixed to wooden cleats with necessary screws and washers.	Each	1441.08
13.7	Providing and Fixing PTMT towel rail with brackets fixed to wooden cleats with CP Brass screws with concealed ritting arrangement of approved quality and colour		
	600 mm long towel rail brackets with total length of 645 mm,width 78mm and effective height of 88 mm ,weighing not less than 190 gms.	Each	920.67
13.8	Providing and Fixing PTMT liquid soap container 109 mm wide,125 mm high and 112 mm distance from wall of standard shape with brackets of the same materials with snap fittings of approved quality and colour,weighing not less than 105 gms	Each	309.89

13.9	Providing and Fixing 1 toilet paper holder Vitreous china	Each	602.98
13.10	Providing and fixing on wall face PVC. soil waste and vent pipe		
13.10.1	<b>100mm dia pipes</b>	Metre	394.70
13.10.2	Providing and fixing on wall face PVC. soil waste and vent pipe <b>75mm dia pipes</b>	Metre	315.52
13.11	Providing and Fixing Stainless steel toilet paper holder in the cavity of wall with screws and washers superior quality of approved brand and manufacture	Each	1802.53
13.12	Providing and fixing water closet squatting pan (Indian type W.C. pan ) with 100mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required : White Vitreous china Orissa pattern W.C. pan of size 580x440mm with integral type foot rests.	Each	6242.03
13.13.1	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350mm and 340x410x265mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required : <b>One urinal basin</b> with 5 litre white P.V.C. automatic flushing cistern.	Each	4753.08
13.13.2	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350mm and 340x410x265mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required : <b>Two urinal basin</b> with 5 litre white P.V.C. automatic flushing cistern.	Each	10270.31
13.13.3	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350mm and 340x410x265mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required : <b>Range of three urinal basins</b> with 10 litre white P.V.C. automatic flushing cistern.	Each	13842.68
13.13.4	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350mm and 340x410x265mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required : <b>Range of four urinal basins</b> with 10 litre white P.V.C. automatic flushing cistern.	Each	19500.31

13.14	Providing and fixing trap of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors: 100 mm inlet and 100 mm outlet Sand cast iron S&S as per IS: 3989.	Each	1909.64
13.15	Providing and fixing white vitrous China water closet Pedestal pan (European) type WC pans with white plastic seat and lid and rubber buffers, 15 white vitrous China low level flushing system of approved make with fittings and brackets 40mm flush bend, 20mm over flow pipe with complete including cutting and making good the walls and floors where required. <b>(Jaquar model No SLS-WHT-0311/SLS-WHT-0318 or Equivalent)</b>		
	White EWC pan with plastic seat and lid	each	15795.34
13.16	Providing and fixing white vitrous China wash basin with RS or CI brackets painted white, 15mm C.P bras pillar tap and C.P brass chain and rubber plug 32mm C,P. brass waste of standrad pattern 32mm diametre and waste pipe complete including cutting and making good the walls and floors where required		
	White vitrous china wash basin 550x605x475mm with half pedestal <b>(Jaquar modal FNS WHT - 1503 or equivalent)</b>	Each	11788.59
13.17	Providing and fixing mirror of superior glass (approved quality) complete with 6mm thick asbestose sheet ground fixed to wooden cleats with necessary screws and washers. <b>( Cera model No 5561 size 700x500mm )</b>	Each	1810.11
13.18	Providing and fixing P.V.C low level flushing cistern with manually controlled device ( handle lever) confirming to IS :7231 with all fittings and fixtures complete.	Each	1685.88
13.19	Providing anf fixing Stailless steel A ISI 304 labour room sink including fitting and brackets,cutting and making good the walls where required.	Each	52350.81
13.20	Providing anf fixing Stailless steel A ISI 304 ( 18/8) kitchen sink asper IS 13983 with CI brackets stainless steel plug 40 mm ,including painting of fittings and brackets, cutting and making good the walls where required. With out drain board 450x400x250 mm	Each	3242.18
13.21	Providing and fixing 100 mm PVC grating for gully trap.	Each	60.90
13.22	Providing and fixing in position 25mm diameter mosquito proof coupling of approved municipal design.	Each	73.45
13.23	Providing and fixing 600x120x5mm glass shelf with edges round of supported on anodised aluminium angle frame with C.P. brass brackets and guard rail complete fixed with 40 mm long screws, rawl plugs etc., complete.	Each	984.10
13.24	Providing and fixing toilet paper holder : C.P. brass	Each	678.60
13.25	Providing and fixing toilet paper holder: Vitreous china	Each	599.80

<b>SH:-14. DRAINAGE</b>			
<b>Item No</b>	<b>Specification</b>	<b>Unit</b>	<b>Rate</b>
14.1	Providing,laying and P.V.C pipes grade "A" with stiff mixture of 1:3 (1 cemenr 3 metal sand) including testing of joints etc. complete.		
14.1.1	<b>110mm diametre</b>	Metre	609.50
14.1.2	<b>90mm diametre</b>	Metre	563.14
14.1.3	<b>75 mm diametre</b>	Metre	514.63
14.1.2	<b>63 mm diametre</b>	Metre	471.94
14.2.1	Providing and laying cement concrete 1:5:10 (1 cement : 5 metal sand : 10 graded stone aggregate 40 mm nominal size) upto haunches of pipes including bed concrete as per standard design . <b>100mm dia pipe</b>	Metre	1045.26
14.2.2	Providing and laying cement concrete 1:5:10 (1 cement : 5 metal sand : 10 graded stone aggregate 40 mm nominal size) upto haunches of pipes including bed concrete as per standard design : <b>150 mm diameter pipe</b>	Metre	1694.04
14.3	Dislodging of septic tank including disposal of sludge by digging a pit within a lead of 50 meters and covering it with sand including adding disinfectants etc..including washing the tank and re-arranging of soak pit ,manhole etc..complete as directed by the Engineer-in-charge.	cum	1627.69



SH:15 ALUMINIUM WORK			
Item No	Specification	Unit	Rate
15.1	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS : 1285, fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required EPDM rubber/ Neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer- in-charge. (Glazing and panelling to be paid for separately):For fixed portion.		
15.1.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	Kg	893.79
15.1.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	Kg	946.15
15.2	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS : 1285, fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required EPDM rubber/ Neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer- in-charge. (Glazing and panelling to be paid for separately):		
15.2.1	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately).		
15.2.1.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	Kg	1030.16
15.2.1.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	Kg	1083.59

15.3	Providing and fixing 12mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade 1 Type II in panelling fixed in aluminium doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge.		
15.3.1	Pre-laminated particle board with decorative lamination on one side and balancing lamination on other side.	sqm	1841.30
15.3.2	Prelaminated particle board with decorative lamination on both sides.	sqm	1879.69
15.4	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber/neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item):		
15.4.1	With float glass panes of 4.0 mm thickness	sqm	1543.54
15.4.2	With float glass panes of 5.50 mm thickness	sqm	1906.00
15.4.3	With float glass panes of 8 mm thickness	sqm	2383.43
15.5	Providing and fixing double action hydraulic floor spring of approved brand and manufacture IS : 6315 marked, for doors including cost of cutting floors as required, embedding in floors and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-in-charges.		
15.5.1	With stainless steel cover plate minimum 1.25 mm thickness	each	3592.47
15.5.2	With brass cover plate minimum 1.25 mm thickness	each	4091.20
15.6	Filling the gap in between aluminium frame & adjacent RCC/ Brick/ Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete.		
15.6.1	Upto 5mm depth and 5 mm width	each	107.40
15.7	Providing and fixing aluminium tubular handle bar 32 mm outer dia, 3.0 mm thick & 2100 mm long with SS screws etc .complete as per direction of Engineer-in-Charge.		
15.7.1	Anodized (AC 15 ) aluminium tubular handle bar	each	1194.25
15.7.2	Powder coated minimum thickness 50 micron aluminium tubular handle bar.	each	1275.74
15.8	Providing and fixing 100mm brass locks (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.	each	816.24
15.9	Providing and fixing aluminium casement windows fastener of required length or aluminium windows with necessary screws etc. complete.		
15.9.1	Anodized(AC 15) aluminium	each	101.99
15.9.2	Powder coated minimum thickness 50 micron aluminium.	each	100.60
15.9.3	Providing and fixing aluminium round shape handle of outer dia 100mm with SS screws etc. Complete as per direction of Engineer-in-charge.		
	Powder coated minimum thickness 50 micron aluminium.	each	122.22

15.10.1	Providing and fixing aluminium grills ( anodised transparent or dyed to required shade according ti IS:1868 with minimum anodic coating of grade AC 15 ) approved design /pattern ,with approved standard section and fixed to the existing window frame with C.P.brass/stainless steel screws @ 200 mm centre to centre ,including cutting the grills to proper opening size for fixing and operation of handles and fixing approved anodised aluminium standard section around the opening ,all complete as per requirement and direction of Engineer- in-charge( Only weight of grill to be measured for payment )	Kg	905.64
15.11	Providing and fixing 12mm thick framless toughened glass door shutter of approved brand and manufacture,including providing and fixing top & bottom pivot& spring type fixing arrangement and making necessary holes etc.. for fixing required door fittings ,all complete as per the direction of Engineer-in-charge ( Door handle,lock,and stopper etc.. to be paid separately .	sqm	7883.96

SH:16. ROAD WORK with M.sand			
Item No	Specification	Unit	Rate
16.1	Cement concrete 1:2:4 (1 cement : 2 metale sand : 4 graded stone aggregate 40 mm nominal size) in pavements, laid to required slope and camber in panels as required including side shuttering, consolidation finishing and tamping complete.	cum	17224.96
16.2	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction and of approved size and design/ shape laid in required colour and pattern over and including 50mm thick compacted bed of Fine sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge.	Sqm	1576.86
16.3	Supplying at site :R.C.C. Standards post/ struts/rails/ pales of mix 1:1.5:3 ( 1 cement : 1.5 coarse sand : 3 graded stone aggregate 12.5 mm nominal size) with wooden plugs or 6mm bar nibs, wherever required as per direction of Engineer-in-charge (cost of earth works in excavation, concrete worksfoundation to be paid separately).	Cum	45073.94
16.4	Cutting cement concrete road and making good the same including extra cost of cement concrete 1:2:4 required ect.. Complete and disposal of rubbish etc complete within 50 meters lead	cum	3209.51
16.5	Providing and fixing G.I. chain link fabric fencing of required width in mesh size <b>25x25mm</b> including made of G.I wire of 8 gauge including strengthening with 2mm dia wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-charge.	Sqm	1164.02
16.6	Fencing with angle iron post placed at required distance embedded in cement concrete blocks, every 15th post, last but one end post and corner post shall be strutted on both sides and end post on one side only and provided with horizontal lines and two diagonals interwoven with horizontal wires, of barbed wire 9.38 kg per 100 m (minimum) between the two posts fitted and fixed with G.I. staples, turn buckles etc. complete. (Cost of posts, struts, earth work and concrete work to be paid for separately):- Payment to be made per metre cost of total length of barbed wire used. With G.I. barbed wire	Mtr	163.61
16.7	Supplying and fixing turn buckles and straining bolts for barbed wire fencing.	Sqm	214.32

SH:- 17.ANTI SEA EROSION with M.sand			
Item No	Specification	Unit	Rate
17.1	Providing and laying in position cement concrete 1:1.5:3 ( 1 cement: 1.5metal sand: 3 granite chips 20mm nominal size) excluding cost of centring and shuttering and reinforcement All work up to plinth level.		
	Foundation footings bases of column etc, and mass concrete.	Cum	17880.45
17.2	Providing and fixing in position 0.5 mt Tetrapod in CC 1:1.5:3 ( 1 cement: 1.5 metal sand: 3 granite chips 20mm nominal size) as per approved patern	Each	5396.93
17.3	Providing and placng in position hollow blocksof size 60x40x30 cm in cement concrete 1:1.5:3 ( 1 cement: 1.5 metal sand: 3 granite chips 20mm nominal size) as per approved patern	Each	1114.24
17.4	Labour for conveyance of tetrapod manually and Re-arranging as per design	Each	281.25
17.5	Labour for conveyance of Hollow Block manually and Re-arranging as per design(	Each	118.13
17.6	Providing and laying Granite boulders including transportation by manual labour loading /unloading and stacking the same lead less than 0.5 kmts	Each	9461.84

SH-18.REPAIRS TO BUILDINGS			
Item No	Specification	Unit	Rate
18.1	Repairs to plaster of thickness 12mm to 20mm in patches of area 2.5 sq. metres and under including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete including disposal of rubbish to the dumping ground within 50 metres lead :Cement mortar 1:4	sqm	713.73
18.2	Fixing chowkhats in existing opening including embedding chowkhats in floors or walls cutting masonry for holdfasts embedding hold fasts in cement concrete blocks with cement concrete 1:3:6 (1 cement : 3 metal sand : 6 graded stone aggregate 20 mm nominal size) painting two coats of approved wood preservative to sides of chowkhats and making good the damages to walls and floors as required complete including disposal of rubbish to the dumping ground within 50 metres lead :	each	2074.04
18.3.1	Renewing glass panes and refixing existing wooden fillets:		
	Float glass panes of thickness 4 mm	sqm	1361.01
18.4	Raking out joints in lime or cement mortar and preparing the surface for re-pointing or replastering including disposal of rubbish to the dumping ground within 50 metres lead.	sqm	10.87
18.5	Providing and fixing 150 mm bright finished floor brass door stopper with rubber cushion, screws etc. to suit shutter thickness complete	each	350.15
18.6	Providing and fixing bright finished brass hard drawn hooks and eyes :		
18.6.1	250 mm	each	133.71
18.6.2	200 mm		128.72
18.7	Providing and fixing chromium plated brass butt hinges with necessary screws etc. complete.		
18.7.1	100x70x4 mm (ordinary type)	each	178.93
18.7.2	75x65x4 mm (heavy type)	each	232.37
18.8	White washing with White cement give an even shade : Old work (two or more coats)	sqm	30.80
18.8.1	White washing with White cement to give an even shade : Old work (one or more coats)	sqm	17.96
18.9	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	sqm	19.67
18.10	Distempering with dry distemper of approved brand and manufacture (one or more coats) and of required shade on old work to give an even shade.	sqm	74.96
18.11	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade : Old work (one or more coats)	sqm	77.61
18.12	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	sqm	24.79

18.13	Painting on G.S. sheet with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade : Old work (one or more coats)	sqm	103.31
18.14	Painting with oil type wood preservative of approved brand and manufacture Old work (one or more coats)	sqm	40.39
18.15	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade One or more coats on old work.	sqm	100.99
18.16	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade One or more coats on old work.	sqm	94.67
18.17	Painting with aluminium paint of approved brand and manufacture to give an even shade One or more coats on old work.	sqm	86.84
18.18	Painting with acid proof paint of approved brand and manufacture of required colour to give an even shade One or more coats on old work.	sqm	91.36
18.19	French spirit polishing: One or more coats on old work.	sqm	223.41
18.20	Re-lettering with black Japan paint of approved brand and manufacture.	Per cm height of letter	3.75
18.21	Providing and fixing C.P. brass chain and rubber plug complete for sink or wash basin :		
18.21.1	32mm dia	each	63.57
18.21.2	40 mm dia	each	68.55
18.22	Distempering with 1st quality acrylic washable distemper (ready made) of approved manufacturer and of required shade and colour complete, as per manufacturer's. One or more coats on old work.	sqm	57.56
18.23	Finishing walls with water proofing cement paint of required shade : Old work (one or more coats applied @ 2.20 kg/10 sqm) over priming coat of primer applied @ 0.80 litres/10 sqm complete including cost of Priming coat.	sqm	111.25
18.24	Finishing walls with textured exterior paint of required shade : Old work (Two or more coats on existing cement paint surface applied @ 3.28ltr/10 sqm).	sqm	222.97
18.25	Finishing walls with textured exterior paint of required shade : Old work (One or more coats) applied @ 1.82 ltr/10 sqm.	sqm	137.39
18.26	Finishing walls with Acrylic Smooth exterior paint of required shade : Old work (Two or more coat applied @ 1.67 ltr/10 sqm) on existing cement paint surface).	sqm	135.37
18.27	Finishing walls with Acrylic Smooth exterior paint of required shade : Old work (One or more coat applied @ 0.90 ltr/10 sqm).	sqm	88.47
18.28	Finishing walls with Premium Acrylic Smooth exterior paint of required shade Old work (Two or more coats applied @ 1.43 ltr/10sqm) over existing cement paint surface.	sqm	143.29
18.29	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade Old work (one or more coats applied @ 0.83 ltr/10 sqm).	sqm	95.01
18.30	Varnishing with varnish of approved brand and manufacture: One or more coats with spar varnish.	sqm	93.48

18.31	Providing and fixing 16 mm M.S. Fan clamps of standard shape and size in existing R.C.C. slab, including cutting chase, anchoring clamp to reinforcement bar, including cleaning, refilling, making good the chase with matching concrete, plastering and painting the exposed portion of the clamps complete	each	589.23
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<b>SH:-19. DEMOLISHING ITEMS</b>			
<b>Item No</b>	<b>Specification</b>	<b>Unit</b>	<b>Rate</b>
19.1	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer in charge. 1:3:6 or richer mix	Cum	2558.58
19.2	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer in charge. 1:4:8 or leaner mix	Cum	1581.81
19.3	Demolishing R.C.C. work, including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge.	Cum	3732.65
19.4	Demolishing brick work, manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge. In Cement mortar	Cum	2167.67
19.5	Removing mortar from bricks and cleaning bricks including stacking within a lead of 50 m (stacks of cleaned bricks shall be measured): From brick work in cement mortar	Each	7.05
19.6	Demolishing stone rubble masonry manually/by machanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge: In cement mortar	Cum	2587.50
19.7	Dismantling dressed stone work ashlar face stone work, marble work or precast concrete work manually/by machanical means including stacking of serviceable and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge: In cement mortar	Cum	3028.87
19.8	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead Of area 3 sqm and below	Each	384.42
19.8.1	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead Of area beyond 3.00 sqm	Each	525.25
19.9.1	Taking out doors, windows and clerestory window shutters (steel or wood) including stacking within 50 metres lead: Of area 3 sq. metre and below	Each	150.29
19.9.2	Taking out doors, windows and clerestory window shutters (steel or wood) including stacking within 50 metres lead: Of area beyond 3.00 sqm	Each	197.54
19.10	Dismantling wood work in frames, trusses, purlins and rafters upto 10 metres span and 5 metres height including stacking the material within 50 metres lead: Of sectional area 40 square centimetres and above.	Cum	4672.90

19.11	Dismantling steel work in built up sections in angles, tees, flats and channels including all gusset plates, bolts, nuts, cutting rivets, welding etc. including dismembering and stacking within 50metres lead.	Kg	5.78
19.12	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metre lead.For thickness of tiles above 10 mm and upto 25 mm	Sqm	76.86
19.13	Demolishing brick tile covering in terracing including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	Sqm	110.49
19.14.1	Dismantling roofing including ridges, hips valleys and gutters etc., and stacking the material within 50 metres lead of: G.S. Sheet	Sqm	172.68
19.14.2	Dismantling roofing including ridges, hips valleys and gutters etc., and stacking the material within 50 metres lead of: Asbestos Sheet	Sqm	80.63
19.15	Dismantling tiled roofing with battens boarding etc. complete including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	Sqm	220.10
19.16	Demolishing thatch roofing including mats, bamboo, jaffari etc. complete including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	Sqm	47.77
19.17	Dismantling wooden bairies in posts and struts including stacking within 50 metres lead.	Metre	17.44
19.18	Dismantling and stacking within 50 metres lead, fencing posts or struts including all earth work and dismantling of concrete etc. in base of: 'T' or 'L' iron or pipe.	Each	181.87
19.19	Dismantling and stacking within 50 metres lead, fencing posts or struts including all earth work and dismantling of concrete etc. in base of: R.C.C	Each	101.36
19.20	Dismantling barbed wire or flexible wire rope in fencing including making rolls and stacking within 50 metres lead.	Kg	30.60
19.21	Dismantling precast concrete or stone slabs in walls, partition walls etc. including stacking within 50 metres: Thickness above 40 mm upto 75 mm	Sqm	454.16
19.22	Dismantling cement asbestos, Celotax or other hard board ceiling or partition walls including stacking of serviceable materials and disposal of unserviceable materials within 50 metres lead.	Sqm	58.57
19.23	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	Sqm	56.56
19.24	Dismantling aluminium/ Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable surplus material and stacking of serviceable material with in 50 meters lead as directed by Engineer-in-charge.	Sqm	58.58
19.25	Demolishing C.C. /R.C.C. work by mechanical means and stockpiling at designated locations and disposal of dismantled materials upto a lead of 1000m, stacking serviceable and unserviceable material separately including cutting reinforcement bars.	Cum	2806.18

19.26	Dismantling C.I. or asbestos rain water pipe with fittings and clamps including stacking the material within 50 metres lead : 100 mm	Metre	81.97
19.27	Dismantling C.I. or asbestos rain water pipe with fittings and clamps including stacking the material within 50 metres lead : 150 mm	Metre	84.28
19.28	Taking out doors, windows and clerestory window shutters (steel or wood) and including resizing and refixing of shutters.	Each	305.94
19.29.	Dismantling G.I. pipes (external work) including excavation and refilling trenches after taking out the pipes, manually / by mechanical means including stacking of pipes within 50 metres lead as per direction of Engineer-in-Charge:		
19.29.1	15 mm to 40 mm nominal bore	Metre	122.20
19.29.2	Above 40 mm nominal bore	Metre	129.40
19.30	Dismantling of flushing cistern of all types (C.I./PVC/Vitrious china) including stacking of useful materials near the site and disposal of unservicable materials within 50 metres lead as per direction of Engineer-in-Charge:	Each	820.06

SH:- 20.MARBLE AND GRANITE WORK			
Item No	Specification	Unit	Rate
20.1	Providing and fixing 18mm thick gang saw cut mirror polished (premoulded and prepolished) machine cut for kitchen platforms, vanity counters ,window sills , facias and similar locations of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 metal sand) with joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing moulding and polishing to edge to give high gloss finish etc. complete at all levels.		
20.1.1	Raj Nagar Plain white marble/ Udaipur green marble/ Zebra black marble.		
	Area of slab up to 0.50 sqm	sqm	5266.60
20.1.2	Raj Nagar Plain white marble/ Udaipur green marble/ Zebra black marble.		
	Area of slab over 0.50 sqm	sqm	5371.36
20.2	Providing and fixing 18mm thick gang saw cut mirror polished (premoulded and prepolished) machine cut for kitchen platforms, vanity counters ,window sills , facias and similar locations of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 metal sand) with joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing moulding and polishing to edge to give high gloss finish etc. complete at all levels.		
20.2.1	Granite of any colour and shade		
	Area of slab up to 0.50 sqm	sqm	7387.42
20.2.2	Providing and fixing 18mm thick gang saw cut mirror polished (premoulded and prepolished) machine cut for kitchen platforms, vanity counters ,window sills , facias and similar locations of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 metal sand) with joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing moulding and polishing to edge to give high gloss finish etc. complete at all levels.		
	Granite of any colour and shade		
	Area of slab over 0.50 sqm	sqm	7396.33
20.3	Extra for providing edge moulding to 18mm thick marble stone counters, Vanities etc. including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.		
20.3.1	Marble work	Metre	276.43
20.3	Extra for providing edge moulding to 18mm thick marble stone counters, Vanities etc. including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.		
20.3.2	Granite work.	Metre	476.49

20.4	Extra for fixing marble /granite stone over and above corresponding basic item, in facia and drops of width upto 150 mm with epoxy resin based adhesive including cleaning etc. complete.	Metre	498.53
20.5	Extra for providing opening of required size & shape for wash basins/ kitchen sink in kitchen platform, vanity counters and similar location in marble/Granite/stone work including necessary holes for pillar taps etc. including rubbing and polishing of cut edges etc. complete.	Each	2865.32
20.6	Mirror polishing on marble work/Granite work/stone work where ever required to give high gloss finish complete.	sqm	402.16
20.7	Stone tile (polished) work for wall lining over 12mm thick bed of cement mortar 1:3 (1 cement: 3metal sand) and cement slurry @ 3.3 kg/sqm including pointing in white cement complete.		
20.7.1	8 mm thick.		
	Raj Nagar plain white marble/ Udaipur green marble/ Zebra black marble.	sqm	3047.34
20.7.2	8mm thick.Granite of any colour and shade.	sqm	3723.27

<b>SH:-21 MISCLANIOUS ITEMS</b>			
<b>Item No</b>	<b>Specification</b>	<b>Unit</b>	<b>Rate</b>
21.1	Providing and fixing MDF board shelve with door shutters including steel ( grade 304 )autocos hiinges with necessary screws etc. complete.	sqm	2857.32
21.2	Providing and fixing steel handle ( 304 grade ) with necessary screws	each	188.89
21.3	Finishing with Deluxe Multi surface paint system ( <b>P.U Paint</b> ) for interiors and exteriors using primer as per manufactures specifications two or more coats applied on MDF Board surface @1.25ltr/10 sqm) over including priming coat of special primer applied @ 0.75 ltr/10 sqm	sqm	637.66
21.4	Providing and fixing Flush door shutters confirming to IS:2202 (part.I) decorative type,teek wood planks construction frame of first class teek wood with polished on both faces of shutters		
	35 mm thick including ISI marked Stainless steel butt hinges with necessary screws	sqm	6285.87
<b>SH:-21 MISCLANIOUS ITEMS( Road/helipad work)</b>			
21.5	Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm. depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth lead upto 50 metres.	sqm	226.80
21.6	Providing and laying design mix cement concrete in roads, taxi tracks and runways having a minimum works test beam flexural strength of 30 kg. per cm <sup>2</sup> at 28 days using not less than 340 Kg. of cement per cum of finished concrete, coarse sand and graded stone aggregate of 40mm nominal size in appropriate proportions as per specified design criteria approved by Engineer-in-charge,mechanically. vibrated using needle and surface vibrators including steel form work with sturdy M- S. channel sections including curing and providing and filling construction joints and dummy joints with approved joint filter Primer or equivalent including rounding of the edges and filling the grooves 10x25mm deep at top for construction joints and 10mmx50mm deep at top for dummy joints with joint sealing compound (conforming to grade B of IS : 1834) including making necessary arrangements for expansion joints etc. all complete.	cum	19095.78
21.7	Providing and laying in position bitumen hot sealing compound for expansion joints etc.Using grade 'A' sealing compound.	mtr	5.22
21.8	Painting runway/taxi track/apron marking with adequate no. of coat to give uniform finish with road marking paint of superior make as approved by the Engineer-in-charge including cleaning the surface of all dirt, scales, oil, grease and other foreign material etc and lining out complete. New work (Two or more coats)	sqm	266.58

21.9	Construction of granular sub base by providing close graded Materials confirming to specifications, mixing in a mechanical mix plant at OMC ,carriage of mixed materials by tippers to work site for all leads & lifts spreading in uniform layers of specified thickness with motor grader on prepared surface and compacting with vibrator power roller to achieve the desired density complete as per specifications and direction of Engineer-in-charge. With materials confirming of grade.1 ( Size range 75 mm to 0.075mm ) having CBR Value-30	cum	7619.58
21.10	Construction of dry lean cement concrete sub base over a prepared sub grade with coarse and fine aggregate confirming to IS:383 ,the size of coarse aggregate not exceeding 25 mm ,aggregate cement ratio not to exceed 15:1 ,aggregate gradation after blending to be as per specifications, cement content not less than 150 Kg/cum ,optimum moisture content to determined during trial length construction ,concrete strength not less than 10 Mpa at 7 days ,mixed in batching plant ,transported to site for all leads and lift ,laid with a mechanical paver ,compacting with 8 to 10 tonne vibrator roller finishing and curing etc.. complete as per the direction of Engineer-in-charge	cum	10711.22

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cost  
for addl. 50  
m or part  
thereof  
beyond 1st  
50 m upto  
0.5 km

52.13

65.16

56.66

104.26

65.16

70.44

76.66

121.63

76.02

32.06

25.43

54.63

35.12

64.18

105.5

147.64

<b>BITRA ARE</b>
/Tonne
Cum
Cum
/Tonne
1000Nos
Cum
Cum
<b>BITRA ARE</b>

10600

5695

Amini rate

**Cht rate**















7690  
7580



<b><u>Labour Rate</u></b>
2656.15
2697.35
2912.76
2756.58
2672.49
2600.41
597.77
556.45

<b><u>Labour Rate</u></b>
35.97
445.60
628.80
275.35
104.55
379.90
484.45
589.00
187.30
462.65
649.95
837.25
531.75
252.65

532.97

<u>Labour Rate</u>
5130.14
4873.11
4850.69
4821.10
5617.60
4147.45
5031.57
287.34
338.17

<u>Labour Rate</u>
5984.60
5847.84
5573.15
8133.51
7841.22
7352.24
25.23
1313.83
1154.22
1139.03
2239.97



12838.29
63.88
151.41
4920.38

<b>Labour Rate</b>
269.40
744.31
819.49
853.55
637.66
823.36
561.28
309.43
52.53

<b>Labour Rate</b>
4256.35
5044.82
617.32
847.65

<b>Labour Rate</b>
2457.16
3334.67
4785.00
4748.46

<b>Labour Rate</b>
30631.11
14994.62
1565.49
1558.94
611.03
607.82
92.14
142.75
266.64
26.67

30.98
8.36
31.77
31.77
12.74
12.74
14.34
14.34
9.38
9.19
7.09
6.94
6.94
11.35
10.07
14.14
13.83
13.83
13.83
8.49
8.17
8.17
16.66
16.66
13.52
13.52
13.52
22.71

4.56
19.25
23.44
122.69
130.12
133.02
419.93
871.64
8.61
4.18
29.27
234.39
24.03
297.96
296.99

<b>Labour Rate</b>
390.42
390.42

390.42
69.69
72.82
407.61

<b>Labour Rate</b>
49.13
8324.08
906.17
906.17
906.17
54.07
76.89
61.76
61.76
92.92
16.15
71.56
61.18
68.88
59.35



138.20
74.26
29.40
91.70

<b><u>Labour Rate</u></b>
585.76

470.14
659.10
574.14
574.14
659.46

498.88
1989.02
581.67
581.67
581.67
581.67

723.96
723.96
723.96
723.96
581.67
723.96
527.68

527.68
527.68
527.68
601.03
601.03
601.03

601.03
580.32
521.91
6772.44
5571.04
498.88
1034.49

1655.18

Labour  
Rate

676.40

554.44

554.44

676.40

428.438

461.52



461.52

461.52

461.52

560.25

560.25

560.25

560.25

<b>Labour Rate</b>
257.25
256.67
256.17
560.64
560.37
383.02
570.63
570.63
570.11

844.95
844.95
844.95
217.99
51.80
134.55
168.52
100.83

133.26
466.09
466.09
127.40
105.80
159.62
159.62
159.62
159.62
159.62

<b>Labour Rate</b>
195.65
315.99
313.75
424.79
360.46
322.84
211.25
230.04
263.37
288.79

79.44
198.68
14.22
103.90
124.18
124.18
124.18
124.18
124.18
118.66

64.68
60.04
172.34
408.69
97.68
5.82
197.34
197.34
102.11
0.00
102.11
111.41
32.67

<b>Labour Rate</b>
199.31
218.83
238.34
273.65
350.31
350.31
174.46
174.46
174.46
174.46
204.37
204.37
350.31
350.31
350.31
350.31
281.78
220.45
192.58
189.96
189.96
204.37
204.37
253.32
253.32
335.15
335.15
16.19
19.07
16.19
19.07
21.69



24.55
27.17
29.78
43.36
54.07
64.79
13.58
16.19
1.08
1081.45
540.72
23.25
32.65
23.25
22.73
16.19
16.19
16.19
16.19
16.19
16.19

<b>Labour Rate</b>
218.66
218.66
218.66
218.66
174.46
174.46
189.96
189.96
204.37
204.37
410.40
193.51
32.40
29.79
24.52
21.69
8.36
8.36

8.60
19.60
19.07
19.07
19.60
16.20
13.58
13.58
23.90

<b>Labour Rate</b>
3567.61
1581.25
1392.51
2040.04
1392.51
624.51
324.29
13.58

287.37
105.99
87.77
259.50
3567.61
4111.19
6355.21
8850.30
12710.42

1225.06
2928.79
1288.55
624.51
264.53
1659.07
1659.07
8.60
3.75
472.96
231.90
231.90

<b>Labour Rate</b>
232.52
232.52
232.52
232.52
291.73
472.81
0

<b>Labour Rate</b>
133.81
133.81
221.29
221.29



240.17
318.35
499.57
554.83
557.85
440.02
440.02
47.01
17.59
17.59
234.39
8.56
7.17
7.17

137.61
2439.79

<b>Labour Rate</b>
3330.00
311.35
23446.36
1125.27
383.75
6.54
104.21

<b>Labour Rate</b>
4892.11
1835.89
448.87
281.25
118.13
1579.91

<b>Labour Rate</b>
523.20
1553.06
630.07
10.87
11.18
8.20
8.20
30.47
30.10
16.43
10.72
19.67
65.83
68.36
24.79

91.62
28.12
75.60
74.90
74.90
74.90
206.23
3.69
16.19
16.19
46.88
79.75
75.40
54.86
74.72
54.86
75.29
54.94
73.83

371.10

<b>Labour Rate</b>
2558.58
1581.81
3732.65
2167.67
7.05
2587.50
3028.87
384.42
525.25
150.29
197.54
4672.90



5.78
76.86
110.49
172.68
80.63
220.10
47.77
17.44
181.87
101.36
30.60
454.16
58.57
56.56
58.58
2806.18

81.97
84.28
305.94
122.20
129.40
0

<b>Labour Rate</b>
3435.94
3435.94
3435.94
3435.93
220.69
386.20

404.10
820.56
348.45
2057.22
2057.22

<b>Labour Rate</b>
1107.92
11.179
323.77
1135.10
0.00
4386.85
3.36
143.18

407.00
480.81