

**Annexure-I: Section 1.0: Electrical Works for Tower Wagon Shed, Service bldgs, Platform Modification, Project Facilities
Birlanagar-Etawah Gr-239**

Item No	Item Description	Unit	Qty	Unit Rate (Rs.)	Amount (Rs.)	Weightage %		
A	B	C	D	E	F	G		
1	Excavation of Trench of 1000 mm deep, 300 mm wide for cable in normal soil	Mtr	1080	Bidders not to quote or write anything here	Bidders not to quote or write anything here	1.9109%		
2	Excavation of Trench of 400 mm deep,300 mm wide for cable in platform/pucca floor	Mtr	240			1.4991%		
3	Supply & Laying OF HDPE pipe 103/120 mm dia through trenchless method.	Mtr	120			2.2094%		
4	Supply and transportation of 1100 V AC XLPE cables					0.0000%		
a	4X25 Sqmm	Mtr	1750			4.9506%		
b	4X50 Sqmm	Mtr	100			0.4461%		
c	2X25 Sqmm	Mtr	1400			2.4216%		
5	Supply and fixing of medium class GI Pipe, 50mm nominal bore	Mtr	74			0.6166%		
6	Supply and erection of Cable Route Marker	Nos	120			0.2547%		
7	Supply, installation and commissioning of Feeding Post	Nos	7			2.1828%		
8	Supply, installation and commissioning of Meter cum distribution box	Nos	7			0.1836%		
9	Supply, Erection, testing and commissioning of 1-Ph AC static watt hour meter	Nos	5			or write anything here	or write anything here	0.0502%
10	Supply, Erection, testing and commissioning of 3-Ph AC static watt hour meter	Nos	2					0.1509%
11	Supplying and fixing 8-way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)	Nos	24					0.7082%
12	Supplying and fixing 6-way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)	Nos	6					0.3087%
13	Supply & erection of Hot Dip Galvanized octagonal Pole, 7.0 mtr	Nos	23	6.1390%				
14	Astromical time switch along with TPN MCB 63 A	Nos	5	1.5880%				
15	Supply and installation of LED street Light fitting 45 W	Nos	56	5.4833%				

16	Supplying and fixing of 32/40 mm dia x 2.00 metres long G.I. pipe (medium class) bracket for mounting of LED street light fitting on Wall including bending the pipe to the required shape, 2 nos 40 mm X 3 mm flat iron clamps with nuts, bolts and washer, painting the flat iron with primer and finish paint etc. as required.	Mtr	44	Bidders not to quote	Bidders not to quote	0.7467%
17	Supply, Erection, testing & commissioning of Point Wiring for light point/ fan point/ exhaust fan point/ call bell point with 2.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 2.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.	Nos	524			6.7554%
18	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.					0.0000%
a	2 x 2.5 sq. mm + 1 x 2.5 sq. mm earth wire	Mtr	60	Bidders not to quote or write anything here	Bidders not to quote or write anything here	0.1677%
b	2 x 4 sq. mm + 1 x 4 sq. mm earth wire	Mtr	930			3.1244%
c	2 x 6 sq. mm + 1 x 6 sq. mm earth wire	Mtr	180			0.7527%
d	2 x 10 sq. mm + 1 x 6 sq. mm earth wire	Mtr	40			0.2198%
e	4 x 4 sq. mm + 2 x 4 sq. mm earth wire	Mtr	60			0.3099%
f	6 x 4 sq. mm + 1 x 4 sq. mm earth wire	Mtr	40			0.2354%
19	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required.					0.0000%
a	1 x 1.5 sq. mm	Mtr	405	0.1951%		
b	2 x 2.5 sq. mm	Mtr	120	0.1115%		
c	2 x 4 sq. mm	Mtr	1210	1.7435%		
d	4 x 4 sq. mm	Mtr	100	0.2612%		
e	6 x 4 sq. mm	Mtr	100	0.3702%		
f	2 x 6 sq. mm	Mtr	100	0.2047%		
20	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of in surface/ recessed medium class PVC conduit as required.			Bidders not to quote or write anything here	Bidders not to quote or write anything here	0.0000%
a	1 pair, 0.5 mm dia annealed copper conductor, FRLS PVC insulated, unarmoured, telephone cable	Mtr	1050			1.9515%
b	Co-axial TV cable RG-6 grade, 0.7 mm solid copper conductor PE insulated, shielded with fine tinned copper braid protected with PVC sheath	Mtr	400			0.8342%
21	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required.					0.0000%
a	1 or 2 Module	Nos.	30			0.1222%

b	4 Module	Nos.	96	Bidders not to	Bidders not to	0.4614%
c	6 Module	Nos.	4			0.0223%
d	8 Module	Nos.	4			0.0257%
22	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.					0.0000%
a	5/6 A switch	Nos	8	Bidders not to quote or write anything here	Bidders not to quote or write anything here	0.0114%
b	2 way 5/6 A switch	Nos	4			0.0083%
c	3 pin 5/6 A socket outlet	Nos	8			0.0149%
d	15/16 A switch	Nos	96			0.2120%
e	6 pin 15/16 A socket outlet	Nos	96			0.2813%
f	Bell push	Nos	4			0.0084%
g	Modular Cable TV point	Nos	16			0.0320%
h	Modular Telephone point	Nos	67			0.1338%
23	Supply and installation of Bracket light angle holder	Nos	49			0.0958%
24	Supply, installation, testing & commissioning of LED 18 W Tube Light Luminaire	Nos	238			4.9436%
25	Supply, installation, Testing & Commissioning of Ceiling Fan	Nos	89			2.6145%
26	Supplying and fixing call bell/ buzzer suitable for single phase, 230 V, complete as required.	Nos	4			0.0062%
27	Supply, fixing, testing & commissioning of AC Exhaust fan 300mm complete	Nos	63	Bidders not to quote or write anything here	Bidders not to quote or write anything here	2.0821%
28	Supply, Erection testing & commissioning of Exhaust Fan as per IS-2312, Single phase, 380 mm sweep, 1400 RPM complete with mounting arrangement, grills etc.	Nos	10			1.4807%
29	Supply, fixing, testing & commissioning of 700mm Wall Mounted Air Circulator	Nos	12			4.1357%
30	Supply, fixing, testing & commissioning of Wall mounted Decorative fan	Nos	18			0.6345%
31	Supply, erection, testing and commissioning of metal clad Socket for AC & Geyser	Nos	32			0.5588%
32	Supply, erection, testing and commissioning of 10-Pair Telephone J.B.	Nos	28			0.9735%
33	Supply, erection, testing and commissioning of 20-Pair Telephone J.B.	Nos	2			0.0869%
34	Supply, erection, testing and commissioning of 40-Pair Telephone J.B.	Nos	1			0.0522%
35	Supply of material and providing G.I. Earthing	Nos	41			1.1752%
36	Supply & connecting GI strip/wire for earthing as below					0.0000%
a	25X6mm GI strip in 40mm dia GI pipe from earth electrode including connection with G.I. thimble excavation and re-filling as required.	Mtr	320			2.5937%
b	6 SWG GI wire in 15mm dia GI Pipe from earth electrode including connection with G.I. thimble excavation and re-filling as required.	Mtr	200			0.6309%
c	25X6mm GI strip in recess/surface	Mtr	600			2.0769%

d	6 SWG GI strip in recess/surface	Mtr	215
37	Supply, fixing, testing and commissioning of hot pressed Sheet Moulding Compound (SMC) Junction box	Nos	56
38	Supply, Installation, Testing & Commissioning of 230 V AC Geyser 25 Ltr capacity	Nos	4
39	Supply & Installation of Stainles steel body 150 Ltr. Capacity water cooler as per Rly's specification. Make - Blue star, Voiltas	Nos	8
40	Supply & installation of storage type water purifier (RO+UV+UF). Make - Eureka Forbes or similar approved by Rly's	Nos	8
41	Fabrication, supply & erection of sub distribution panel on 1.63 m MS sheet having aluminum bus bar 400 amps capacity, MCCB's 3 pole, 5 nos. (one no. of 300 amp/50 KA, Two nos. 100amp/25 KA & 63amp/25 KA each), Voltmeter (0-500 V), ampere meter(0300 Amp) Indication lamps etc. as per technical specification enclosed. for outdoor application & weather proof type.	Nos	1
42	Supply, fixing and commissioning of integrated LED Bulk Head Luminare 9 W comprises of pressure die cast housing, Acrylic diffuser & frame with IP.65 Protection suitable for 230 V,50 HZ AC supply	Nos	47
43	Supply, fixing and commissioning of Approx. 40-50W LED Highbay fixture comprises of pressure die cast housing, Acrylic diffuser & frame suitable for 230 V,50 HZ AC supply	Nos	32
44	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.		
a	Single pole	Nos	120
b	Single pole and neutral	Nos	30
c	Double pole	Nos	30
d	Triple pole	Nos	30
e	Triple pole and neutral	Nos	30
45	Providing and fixing following rating and breaking capacity and pole MCCB with thermomagnetic release and terminal spreaders in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required.		
a	100 A, 16 KA,TP MCCB	Nos	5
b	150 A, 16 KA,TP MCCB	Nos	5
46	Wooden key box with glass front in frame, with hinges and locking arrangements 18x24x6inch	Nos	4
47	Caution Board/Danger boards	Nos	10
48	Shock Treatment Charts & Do and Don't Charts/Warning & Information Board (Framed Flax Print Type) with aluminum bit, Size (2 feet x 3 feet)	Nos	4

Bidders not to quote or write anything here

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0.2057%

0.9081%

0.3305%

7.2907%

2.8272%

1.4218%

1.2439%

2.4401%

0.0000%

0.4013%

0.2738%

0.2796%

0.4155%

0.5494%

0.0000%

0.3124%

0.3930%

0.2971%

0.1876%

0.0312%

not to quote or write anything here

not to quote or write anything here

49	Supply & fixing of Name board of Building on 4mm thick acrylic sheet of size 1500x750 mm with fitting	Nos	10	Bidders	Bidders	3.9615%
50	Item deleted.					0.0000%
51	Preparation of Drawings of structures	Job	10			1.6673%
Total (Exclusive of taxes)						

**Annexure II: Section 2.0: Civil Works for Tower Wagon Shed, Service bldgs, Platform Modification, Project Facilities
Birlanagar-Etawah Gr-239**

Item No	Item Description	Unit	Qty	Unit Rate (Rs.)	Amount (Rs.)	Weightage %
A	B	C	D	E	F	G
1	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. All kinds of soil(DSR: 2.6.1)	cum	3369.33	Bidders not to quote or write anything here	Bidders not to quote or write anything here	0.7937%
2	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 as per direction of Engineer-in -charge. Ordinary rock(DSR:2.7.1)	cum	2821.00			1.2879%
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 as per direction of Engineer-in -charge. Hard rock (Blasting prohibited)(DSR:2.7.3)	cum	60.00			0.0790%
4	Extra for every additional lift of 1.5 m or part thereof in excavation /banking excavated or stacked materials. All kinds of soil (DSR:2.26.1)	cum	842.33			0.0986%
5	Extra for every additional lift of 1.5 m or part thereof in excavation /banking excavated or stacked materials. Ordinary or hard rock (DSR:2.26.2)	cum	30.00			0.0063%
6	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.(DSR:2.25)	cum	280.00			0.0797%
7	Excavating, supplying and filling of local earth (including royalty) by mechanical transport upto a lead of 5km also including ramming and watering of the earth in layers not exceeding 20 cm in trenches, plinth, sides of foundation etc. complete.) (DSR:2.25(a))	cum	1462.80			0.6137%
8	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth upto 30 cm measured at a height of 1 m above ground level and removal of rubbish upto a distance of 50 m outside the periphery of the area cleared.(DSR:2.31)	sqm	200.00			0.0033%
9	Felling trees of the girth (measured at a height of 1 m above ground level), including cutting of trunks and branches, removing the roots and stacking of serviceable material and disposal of unserviceable material:Beyond 30 cm girth upto and including 60 cm girth (DSR:2.33.1)	each	5.00			0.0025%
10	Supplying and stacking of hard stone (for stone pitching) 22.5 cm thick at site.(DSR 16.72)	cum	20.00			0.0250%
11	Dry stone pitching 22.5 cm thick laid in courses and required profile with hammer dressed stones having no side less than 15 cm, with minimum depth of 20 cm including preparing the bedding surface etc. all complete. (Payment for Stone to be made separately).(DSR 16.73)	sqm	10.00			0.0063%
12	75 mm thick back filling for pitching including supplying of required materials and consolidation etc. complete with :Moorum (DSR 16.74.1)	sqm	10.00			0.0010%
13	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size).(DSR:4.1.5)	cum	27.67			0.2243%
14	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size).(DSR:4.1.6)	cum	345.20			2.7393%
15	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) (DSR:4.1.3)	cum	378.00			3.3239%

16	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level Like fencing footing etc : 1:1½:3 (1 Cement: 1½ coarse sand: 3 graded stone aggregate 20 mm nominal size).(DSR:4.1.2)(OR DESIGN MIX AS PER APPROVAL)	cum	815.50
17	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. All works upto plinth level. (Note :- Cement content considered in this item is @ 330 kg/cum. Excess/less cement used as per design mix is payable/recoverable separately).(DSR:5.33.1)	cum	1053.00
18	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. All works above plinth level upto floor V level. (Note :- Cement content considered in this item is @ 330 kg/cum. Excess/less cement used as per design mix is payable/recoverable separately).(DSR: 5.33.2)	cum	597.00
19	Add for using extra cement in the items of design mix over and above the specified cement content therein.(DSR: 5.35)	quintal	10.00
20	Centering and shuttering including strutting, propping etc., and removal of form for foundations , bases of columns etc for mass concrete (DSR 5.9.1)	sqm	1420.00
21	Centering and shuttering including strutting, propping etc. and removal of form for :Columns, pillars, piers, abutments, posts and struts etc., at all height and levels(DSR 5.9.6)	sqm	2560.00
22	Centering and shuttering including strutting, propping etc. and removal of form for :Lintels, Beams, plinth beams, girders, bressumers and cantilevers etc., at all height and levels(DSR 5.9.5)	sqm	100.00
23	Centering and shuttering including strutting, propping etc. and removal of form for :Roofs, Suspended floors, landings, balconies & access platform etc., at all height and levels(DSR 5.9.3)	sqm	50.00
24	Centering and shuttering including strutting, propping etc. and removal of form for :Stairs, (excluding landings) except spiral-staircases(DSR 5.9.7)	sqm	50.00
25	Steel reinforcement for R.C.C. work including straightening, cutting, bending, binding wire, placing in position and binding all complete upto plinth level. Mild steel and Medium Tensile steel bars (DSR 5.22.1)	kg	343.33
26	Steel reinforcement for R.C.C. work including straightening, cutting, bending, binding wire, placing in position and binding all complete above plinth level. Mild steel and Medium Tensile steel bars (DSR 5.22A.1)	kg	200.00
27	Steel reinforcement for R.C.C. work including straightening, cutting, bending, binding wire, placing in position and binding all complete upto plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more. (DSR 5.22.6)	kg	82838.07
28	Steel reinforcement for R.C.C. work including straightening, cutting, bending, binding wire, placing in position and binding all complete above plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more. (DSR 5.22A.6)	kg	84662.17
29	Brick work with common burnt clay F.P.S.bricks of class designation 7.5 in superstructure above plinth level up to floor V level including scaffolding etc, in all shapes and sizes in Cement mortar 1:6 (1 cement : 6 coarse sand) (DSR: 6.4.2)	cum	1462.75

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7.6167%
10.9080%
7.2697%
0.0087%
0.5239%
2.4329%
0.0715%
0.0449%
0.0403%
0.0365%
0.0213%
8.9596%
9.1569%
14.3817%

30	Brick work with common burnt clay F.P.S. bricks of class designation 7.5 in foundation and plinth including scaffolding etc.in:Cement mortar 1:6 (1 cement : 6 coarse sand) DSR: 6.1.2)	cum	303.00	B	B	2.4167%
31	Providing Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.Cement mortar 1:4 (1 cement :4 coarse sand) (DSR 6.13.2)	Sqm	400.00			0.4829%
32	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5mm nominal size) (DSR 4.10)	Sqm	916.83			0.4132%
33	Extra for providing and mixing water proofing material in cement concrete work in doses by weight of cement as per manufacturer's specification. (DSR 4.12)	per 50kg cement	200.00			0.0146%
34	15 mm cement plaster of mix : 1:6 (1 cement: 6 fine sand)(DSR:13.2.2)	sqm	6232.50			2.3642%
35	20 mm cement plaster of mix : 1:6 (1 cement: 6 coarse sand)(DSR:13.3.2)	sqm	6730.00			3.0132%
36	6 mm cement plaster of mix : 1:3 (1 cement : 3 fine sand) (DSR 13.16.1)	sqm	1658.00			0.4883%
37	Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade New work (two or more coats) over and including water thinnable priming coat with cement primer.(DSR:13.41.1)	sqm	7380.50			1.4670%
38	Finishing walls with water proofing cement paint of required shade : New work (Two or more coats applied @ 3.84 kg/10 sqm) (DSR 13.44.1)	sqm	7244.50			0.8563%
39	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.(DSR 13.26)	sqm	7380.50			1.8805%
40	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete. 40 mm thick with 20 mm nominal size stone aggregate(DSR 11.3.1)	Sqm	1498.00			0.9670%
41	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption's less than 0.08% and conforming to IS : 15622 of approved make in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600 mm (DSR 11.41.2)	sqm	430.00			0.8358%
42	Providing and laying Vitrified tiles in different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS: 15622, of approved brand & manufacturer, in all colours and shade, in skirting, riser of steps, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS: 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately). Size of Tile 600x600 mm (DSR 11.47.2)	sqm	26.00			0.0584%
43	Providing and laying rectified Glazed Ceramic floor tiles 300x300 mm or more (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick Cement Mortar 1:4 (1 Cement : 4 Coarse sand) jointing with grey cement slurry @ 3.3 kg/ sqm including pointing the joints with white cement and matching pigments etc., complete. (DSR 11.40)	Sqm	20.00			0.0303%
44	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), 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 dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete (DSR 8.31)	Sqm	130.00			0.1735%

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45	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 dado/skirting on 12 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand) Acid and alkali resistant tile. (DSR:11.21.2.1)	sqm	120.00	Bidders not to quote or write anything here	Bidders not to quote or write anything here	0.2499%
46	Supply, Fabrication and erection of Structural steel work any kind of section 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. (DSR: 10.2)	kg	31650.00			4.1714%
47	Supplying and fixing turn buckles and straining bolts for barbed wire fencing. (DSR:16.16)	each set	40.00			0.0124%
48	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 works in foundation to be paid separately). (DSR:16.15.1)	cum	11.10			0.3847%
49	Fencing with R.C.C. 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 one side only, provided with horizontal lines and two diagonals of barbed wire weighing 9.38 kg per 100metres (minimum), between the two posts fitted and fixed with G.I. staples on wooden plugs or G.I. binding wire tied to 6 mm bar nibs fixed while casting the post (cost of R.C.C. posts, struts, earth work and concrete to be paid for separately) :- Payment to be made per metre cost of totallength of barbed wire used. With G.I. barbed wire(DSR:16.17.1)	metre	146.67			0.0023%
50	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters. 30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws (DSR: 9.20.2)	sqm	50.00			0.1785%
51	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters: 30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws (DSR: 9.21.2)	sqm	290.43			0.6846%
52	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately). Second class teak wood (DSR 9.1.1)	cum	0.40			0.0675%
53	Providing 40x5 mm flat iron hold fast 40 cm long including fixing to frame with 10 mm diameter bolts, nuts and wooden plugs and embedding in cement concrete block 30x10x15cm 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size). (DSR 9.53)	each	40.00			0.0093%
54	Providing and fixing pressed steel door frames conforming to IS: 4351 manufactured from commercial mild steel sheet of 1.60 mm thickness including hinges, jamb, lock jamb, bead and if required angle threshold of mild steel angle of section 50x25mm, or base ties of 1.60 mm pressed mild steel welded or rigidly fixed together by mechanical means, including M.S. pressed 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: Fixing with adjustable lugs with split end tail to each jamb as per direction of Engineer-in-charge(DSR 10.14.3.1)	meter	156.81			0.0984%

55	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, K11 B and K12 B etc. complete of standard rolled steel sections, joints mitred and flash butt welded and sash bars tenoned and riveted, including providing and fixing of hinges, pivots, including priming coat of approved steel primer, but excluding the cost of other fittings, complete all as per approved design, (sectional weight of only steel members shall be measured for payment). Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	kg	200.00			0.0431%
56	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm) with double speed adjustment with necessary accessories and screws etc. complete (DSR 9.84)	each	16.00			0.0176%
57	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, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. 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 / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) : For fixed portion: Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)(DSR 21.1.1.1)	kg	310.22			0.1704%
58	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, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. 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 / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. 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). Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)(DSR 21.1.2.1)	Kg	145.00			0.0964%
59	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. Fixed to steel windows by welding (DSR 9.48.1)	kg	110.00			0.0236%
60	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): With float glass panes of 5 mm thickness (weight not less than 12.50 kg/ sqm) (DSR 21.3.2)	sqm	645.00			1.0831%

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61	35 mm thick factory made Solid panel PVC Door shutter made out of single piece extruded solid PVC profiles, 5 mm (± 0.2mm) thick, having styles & rails (except lock rail) of size 95 mm x 35 mm x 5 mm, out of which 75 mm shall be flat and 20 mm shall be tapered (on both side), having one side thickness of 15 mm integrally extruded on the hinge side of the profile for better screw holding power, including reinforcing with MS tube of size 40 mm X 20 mm x 1 mm, joints of styles & rails to be mitered cut & joint with the help of PVC solvent cement, self driven self tapping screws & M.S. rectangular pipes bracket of size 190 mm X 100 mm of cross section size 35 mm x 17 mm x 1 mm at each corner. Single piece extruded 5mm thick solid PVC Lock rail of size 115 mm x 35 mm x 35 mm, out of which 95 mm to be flat and 20 mm to be tapered at both ends, having 15 mm solid core in middle of rail section integrally extruded, fixing the styles & rails with the help of solvent and self driven self tapping screws of 125 mm x 11 mm, including providing 5 mm Single piece solid PVC extruded sheet inserted in the door as panel, all complete as per manufacturer's specification and direction of Engineer-in-charge. Non decorative finish (matt finish).(DSR 9.142.1)	Sqm	80.00	Bidders nc	Bidders nc	0.3358%
62	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete 250 X 10 mm.(DSR 9.97.2)	each	30.00			0.0040%
63	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete. 125 mm (DSR 9.100.1)	each	30.00			0.0023%
64	Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. Single rubber stopper.(DSR 9.101.1)	each	30.00			0.0013%
65	Providing and fixing aluminium sliding door bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with nuts and screws etc. complete : 250x16 mm(DSR 9.96.2)	each	30.00			0.0090%
66	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade : Two or more coats on new work.(DSR:13.61.1)	sqm	20.00			0.0031%
67	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) Along the external wall below concrete or masonry apron using chemical emulsion @ 2.25 litres per linear metre including drilling and plugging holes etc.: With Chlorpyriphos/ Lindane E.C. 20% with 1% concentration (DSR 2.35.2.1)	metre	140.00			0.0072%
68	Supplying chemical emulsion in sealed containers including delivery as specified. Chlorpyriphos/ Lindane emulsifiable concentrate of 20% (DSR 2.34.1)	litre	20.00			0.0052%
69	Providing and laying APP (Atactic Polypropylene Polymer) modified prefabricated five layer, 3 mm thick water proofing membrane, black finished reinforced with glass fibre matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 litre/sqm by the same membrane manufactured of density at 25°C, 0.87 - 0.89 kg/litre and viscosity 70 - 160 cps. Over the primer coat the layer of membrane shall be laid using butane torch and sealing all joints etc., and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be as under : Joint strength in longitudinal and transverse direction at 23°C as 350/300 N/5 cm. Tear strength in longitudinal and transverse direction as 60/80N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM, D - 5147. The laying of membrane shall be got done through the authorised applicator of the manufacturer of membrane : 3 mm thick (DSR 14.90.1)	sqm	1340.00	quote or write anything here	quote or write anything here	0.8903%

70	Providing and laying brick tiles over mumty roofs, grouted with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% of integral water proofing compound by weight of cement, over 12 mm layer of cement mortar 1:3 (1 cement : 3 fine sand) and finished neat :With common burnt clay F.P.S. (non modular) brick tiles of class designation 10 (DSR 12.19.1)	sqm	1340.00	Bidders not to	Bidders not to	0.8929%
71	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 diameter (DSR 12.41.2)	meter	884.00			0.3493%
72	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.		0.00			0.0000%
72.a	Coupler - 110 mm (DSR 12.42.1.2)	each	40.00			0.0061%
72.b	Single tee with door- 110x110x110 mm (DSR 12.42.3.2)	each	40.00			0.0105%
72.c	Bend 87.5°- 110 mm bend (DSR 12.42.5.2)	each	40.00			0.0067%
72.d	Shoe (Plain)- 110 mm Shoe(DSR 12.42.6.2)	each	40.00			0.0059%
73	Providing and laying S&S centrifugally cast (spun) iron pipes (Class LA) conforming to IS - 1536 : 100 mm dia pipe (DSR 18.27.1)	metre	410.00			0.6383%
74	Providing, laying and jointing glazed stoneware pipes class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete : 100 mm diameter (DSR 19.1.1)	metre	570.00			0.2341%
75	Providing, laying and jointing glazed stoneware pipes class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete : 150 mm diameter (DSR 19.1.2)	metre	60.00			0.0389%
76	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. 20 mm dia. nominal bore (DSR 18.12.2)	meter	300.00	0.1103%		
77	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. 25 mm dia. nominal bore (DSR 18.12.3)	meter	200.00	0.0944%		
78	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. 50mm dia. nominal bore (DSR 18.12.6)	meter	100.00	0.0732%		
79	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc. Internal work – Exposed on wall. 20 mm dia. nominal bore (DSR 18.10.2)	meter	40.00	0.0178%		
80	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc. Internal work – Exposed on wall. 25 mm dia. nominal bore (DSR 18.10.3)	meter	100.00	0.0567%		
81	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. External work 15 mm dia nominal bore (DSR 18.12.1)	meter	140.00	0.0443%		
82	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. 15 mm nominal outer dia Pipes(DSR 18.8.1)	metre	170.00	0.0903%		
83	Providing and fixing PTMT bib cock of approved quality and colour. 15mm nominal bore, 86 mm long, weighing not less than 88 gms (DSR 18.54.1)	each	120.00	0.0181%		
84	Providing and fixing brass bib cock of approved quality : 15 mm nominal bore (DSR 18.15.1)	each	24.00	0.0094%		
85	Providing and fixing brass stop cock of approved design, quality and make 15 mm nominal bore (DSR 18.16.1)	each	120.00	0.0470%		

86	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete : 15 mm nominal bore (DSR 18.18.1)	each	120.00			0.0526%
87	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fitting arrangement of approved quality and colour. 600mm long towel rail with total length of 645mm, width 78mm and effective height of 88mm, weighing not less than 190gms all complete as directed by the Engineer-in-charge.. (DSR 17.73.2)	each	20.00			0.0154%
88	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS 13983 with C.I. brackets and stainless steel plug 40 mm including painting of fittings and brackets, cutting and making good the walls wherever required, 510x1040 mm bowl depth 200mm (DSR 17.10.1.3)	each	4.00			0.0289%
89	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require: White Vitreous China Flat back wash basin size 550x 400 mm with single 15 mm C.P. brass pillar tap (DSR 17.7.4)	each	18.00			0.0585%
90	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers all complete as directed by the Engineer-in-charge. (DSR 17.31)	each	10.00			0.0166%
91	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, 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 : W.C. pan with ISI marked white solid plastic seat and lid (DSR 17.2.1)	each	18.00			0.1227%
92	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm and 340x410x265 mm 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 : One urinal basin with 5 litre white P.V.C. automatic flushing cistern (DSR 17.4.1)	each	8.00			0.0516%
93	Constructing brick masonry road gully chamber 50x45x60 cm with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) including 500x450 mm pre-cast R.C.C. horizontal grating with frame complete as per standard design : With common burnt clay F.P.S. (non modular) bricks of class designation 7.5 (DSR 19.27.1)	each	16.00			0.1080%
94	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank. (DSR 18.48)	per litre	9000.00			0.1026%
95	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top slab with 1:1.5:3 mix (1 cement : 1.5 coarse sand (zone- III) : 3 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand (zone- III) : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design : Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) : With common burnt clay F.P.S. (non modular) bricks of class designation 7.5 (DSR 19.7.1.1)	each	14.00			0.1978%

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96	Extra for depth for manholes Size 90x80 cm With common burnt clay F.P.S. (non modular) bricks of class designation 7.5 (DSR 19.8.1.1)	meter	14.00	Bidders not to quote or write anything here	Bidders not to quote or write anything here	0.1361%
97	Constructing brick masonry circular type manhole 0.91m internal dia at bottom and 0.56m dia at top in cement mortar 1:4 (1 cement :4 coarse sand), in side cement plaster 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement, foundation concrete 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size), and making necessary channel in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement, all complete as per standard design : 0.91 m deep with S.F.R.C. cover and frame (heavy duty, HD-20 grade designation) 560mm internal diameter conforming to I.S. 12592, total weight of cover and frame to be not less than 182kg., fixed in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including centering, shuttering all complete.(Excavation, foot rests and 12mm thick cement plaster at the external surface shall be paid fo, including providing 5 mm Single piece solid PVC extruded sheet inserted in the door as panel, all complete	each	6.00			0.0858%
98	Extra depth for circular type manhole 0.91m internal dia (at bottom) beyond 0.91m to 1.67m With common burnt clay F.P.S. (non modular) bricks of class designation 7.5 (DSR 19.10.1)	meter	12.00			0.1002%
99	Constructing soak pit 1.20x1.20x1.20 m filled with brickbats including S.W. drain pipe 100 mm diameter and 1.20 m long complete as per standard design. (DSR 19.33)	Each	10.00			0.0338%
100	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 to achieve 95% or more of standard proctor's MDD, including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth with lead upto 50 metres. (DSR 16.1)	sqm	1400.00			0.2843%
101	Laying water bound macadam sub-base with brick aggregate and binding material, earth etc. including screening, sorting and spreading to template and consolidation with light power road-roller etc. complete (payment for brick aggregate and moorum etc. to be made separately) Over burnt (Jhama) brick aggregate 120 mm to 40 mm (DSR 16.5.1)	cum	222.50			0.1817%
102	Supply and laying approved quality Stone aggregate 40mm size in transformer yards.	cum	2.00			0.0041%
103	Providing corrugated G.S. sheet roofing including vertical / curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead, including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (up to any pitch in horizontal/ vertical or curved surfaces), excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required. 0.63 mm thick with zinc coating not less than 275 gm/ m ² (DSR 12.1.3)	sqm	612.00			0.7253%
104	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 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 - part 1 and M.S. top cover of required thickness for rolling shutters. 80x1.25 mm M.S. laths with 1.25 mm thick top cover (DSR 10.6.1)	sqm	36.00			0.1373%

105	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 50 metres lead. (DSR 15.18)	kg	442.40			0.0024%
106	Extra for dismantling trusses, rafters, purlins etc. of steel work for every additional span of one metre or part thereof beyond 10 metres (DSR 15.20)	kg per meter span	440.35			0.0003%
107	Extra for dismantling trusses, rafters, purlins etc. of steel work for every additional height of one metre or part thereof beyond 5 metres. (DSR 15.21)	kg per meter height	440.35	Bidders not to quote or write anything here	Bidders not to quote or write anything here	0.0003%
108	Extra for marking of structural steel work required to be re-erected. (DSR 15.22)	kg	602.00			0.0027%
109	Dismantling roofing including ridges, hips, valleys and gutters etc., and stacking the material within 50 metres lead of: G.S. Sheet (DSR 15.28.1)	sqm	230.10			0.0363%
	Total (Exclusive of taxes)					