

SCHEDULE OF WORK

Name of Work - ARM of Electrical works at Sub Regional Office,Thane And BO Ambernath for the year 2017-18.

Sr No	Description of items	Qty	Unit	Rate (RS.)	Amount (RS.)
Part A					
1	Maintenance of EI & Fans, compound & garden lights by providing services of 1 No Wireman & 1 No Helper with all tools and plants etc. as required.	12 Mths	Mth		
2	Running and service maintenance of water supply pump sets with its automation arrangement etc. complete as required.	12 Mths	Mth		
3	Service maintenance of Fire Fighting system including all pumps and accessories consisting of sprinklers, floor/yard hydrant etc. complete as required.(Read particulars additional conditions)	12 Mths	Mth		
4	Service maintenance of fire alarm system consisting of main control and indicating pannel, public address system, manual call boxes, smoke/heat detectors, RI etc. complete as required.	12 Mths	Mth		
5	service maintenance of Sub-Station comprising of.500KVA Dry Transformers and H T/L T switch gears etc. complete as required.	12 Mths	Mth		
6	Running, testingand serviceing of 2 nos. 500 KVA stand by D.G. sets etc. complete as required	12 Mths	Mth		
Part B					
	Rates for supply of following items also to be quoted for which payments shall be made as per actual use at work (where multiple brands/makes/manufactureres specified, brand/make selection by ESIC shall be final)				
1	3/2.5 microfarads fan capacitor (Asian/Havells)	5 Nos.	Each		
2	8 microfarads capacitor FR (Asian/Havells)	15 Nos.	Each		
3	Angle / Batten holder (Anchor/Leader)	5 Nos.	Each		
4	4 feet 40 Watt Flu. tube (Philips/Osram/Bajaj)	10 Nos.	Each		
5	70 Watts HPSV Lamp (Philips/Osram/Bajaj)	5 Nos.	Each		
6	150 Watts HPSV Lamp (Philips/Osram/Bajaj)	5 Nos.	Each		
7	28 Watts T-5 Lamp (Philips/Osram/Bajaj)	25 Nos.	Each		
8	CFL Lamp 10/13/18 W (Philips/Osram/Bajaj)	75 Nos.	Each		
9	CFL Lamp 9/11 W (Philips/Osram/Bajaj)	25 Nos.	Each		
10	CFL Lamp 36 W (Philips/Osram/Bajaj)	250 Nos.	Each		
11	CFL Lamp self ballasted BC 8/14/18 W (Philips/Osram/Bajaj)	50 Nos.	Each		
12	Choke 40 Watts Copper (Philips/Osram/Bajaj)	20 Nos.	Each		
13	CFL choke 9/11/18 Watts Copper (Philips/Osram/Bajaj)	50 Nos.	Each		

Electrical

14	20/40 Watts Tube light starter (Philips/Osram/Crompton)	200	Nos.	Each		
15	70 Watts copper ballast for HPSV Lamp (Philips/Osram/Crompton/Wipro)	5	No.	Each		
16	150 Watts copper ballast for HPSV Lamp (Philips/Osram/Crompton/Wipro)	5	Nos.	Each		
17	Electronic ballast suitable for T5 1 x 28 W (Philips/Osram/Bajaj)	5	Nos.	Each		
18	Electronic ballast suitable for CFL 2 x18 W (Philips/Osram/Bajaj)	10	Nos.	Each		
19	Electronic ballast suitable for CFL 2x36 W (Philips/Osram/Bajaj)	40	Nos	Each		
20	70 Watts Ignitor for HPSV Lamp (Bajaj/Crompton/Wipro)	5	Nos.	Each		
21	150 Watts Ignitor for HPSV Lamp (Bajaj/Crompton/Wipro)	5	Nos.	Each		
22	Supporting clips for 36Watts Tube(Plastic)	30	Nos.	Each		
23	6 A to 32 A MCB Single Pole (Legrand/Havells)	20	Nos.	Each		
24	40 A MCB Isolator double Pole (Legrand/Havells)	5	Nos.	Each		
25	63 A MCB Isolator double Pole (Legrand/Havells)	20	Nos.	Each		
26	63 A MCB Four Pole (Legrand/Havells/Hager)	10	Nos.	Each		
27	63 A 4 Pole RCCB (Legrand/Havells)	5	Nos.	Each		
28	63 A 2 Pole RCCB (Legrand/Havells)	5	Nos.	Each		
29	250 Amp,25 KA, 3 ple MCCB (Make L & T)	2	Nos.	Each		
30	2 way SP MCB DB complete as required. (Legrand/Havells)	5	Nos.	Each		
31	4 way SP MCB DB complete as required. (Legrand/Havells)	2	Nos.	Each		
32	1.5 sq. mm. FR PVC Insulated Single core Copper wire (Polycab/Finolex)	500	Mtrs.	Meter		
33	4 sq. mm. FR PVC Insulated Single core Copper wire (Polycab/Finolex)	200	Mtrs.	Meter		
34	2 pair Telephone PVC cable (Polycab/Finolex)	30	Mtrs.	Meter		
35	4 pair Telephone PVC cable (Polycab/Finolex)	30	Mtrs.	Meter		
36	CAT 6 UTP Cable (D-Link)	50	Mtrs.	Meter		
37	4 x 4 Sq.mm. Copper Armoured Cable (Polycab/Finolex)	50	Mtrs.	Meter		
38	4 x 6 Sq.mm. Copper Armoured Cable (Polycab/Finolex)	50	Mtrs.	Meter		
39	Tube light side holder (Anchor/Precision)	5	Nos.	Each		
40	Tube light starter holder (Anchor/Precision)	5	Nos.	Each		
41	HPSV 70/150 w Lamp holder	5	Nos.	Each		
42	Adopter (Anchor)	5	Nos.	Each		
43	20A Industrial type socket with MCB & box for A/c & Gyser points(Legrand)	1	No.	Each		
44	5/6 A PlugTop (Anchor/Precision)	1	No.	Each		
45	15/16 A PlugTop (Anchor/Precision)	1	No.	Each		
46	Celing rose (Anchor/Precision)	5	Nos.	Each		

Electrical

47	Moduler computer jack Single with shutter(Anchor- Roma)	5 Nos.	Each		
48	Moduler computer jack Single with data level and shutter(Anchor-Roma)	5 Nos.	Each		
49	25 mm PVC casing capping/conduit (Asian/Precision)	50 Mtrs.	Meter		
50	Modular T V Socket (Anchor-Roma)	5 Nos.	Each		
51	Modular Telephone Socket with shutter (Anchor Roma)	5 Nos.	Each		
52	Modular 5/6 Amp switch/Bellpush (Anchor Roma)	10 Nos.	Each		
53	Modular 15/16 Amp switch (Anchor Roma)	10 Nos.	Each		
54	Modular 5/6 Amp Multi socket (Anchor Roma)	20 Nos.	Each		
55	Modular 15/16 Amp Multi socket (Anchor Roma)	10 Nos.	Each		
56	RJ - 6 TV cable (Polycab/Finolex)	25 Mtrs.	Meter		
57	Overhauling, servicing of water supply pump sets, gardening pumps and de-watering pump sets with motor including varnishing, greecing replacement of bearing, glands etc. as required	1 Jobs	Job		
58	Overhauling, servicing of ceiling fans/wall fans/exhaust fan including replacment of cotter pins, shackle insulator & bolts,bearings etc. complete as required	5 Nos.	Each		
59	Supplying of 2X36 CFL EB fitted with FR capacitors recessed mounted direct/indirect luminaire with coloured wings, complete suitable for 2x36 watt CFL	10 Nos.	Each		
60	Supplying of 2X18 FR FGLW 2 EB Horizontal down lighters with centre forsted glass attachment complete suitable for 1x18 W CFL	10 Nos.	Each		
61	Supply of 1 x 28Watts T-5 box type fitting (Philips/Bajaj)	5 Nos.	Each		
62	Overhauling, servicing of ceiling fans/wall fans/exhaust fan including replacment of cotter pins, shackle insulator & bolts,bearings etc. complete as required	5 Nos.	Each		
63	Re-filling of ABC type fire Extinguisher. capacity-5KG	15 Nos.	Each		
64	Re-filling of CO2 type fire Extinguisher. Capacity-4.5KG	15 Nos.	Each		
65	Re-filling of Water type (Gas cartridge) fire Extinguisher. capacity-9KG	10 Nos.	Each		
66	Re-filling of BC type fire Extinguisher. capacity-5KG	5 Nos.	Each		
67	Rewinding of 16" (400mm) sweep wall mounted fan	3 Nos.	Each		
68	Rewinding of 200mm sweep exhaust fan	3 Nos.	Each		
69	Supplying of smoke detectors Ionazation type Appollo 65 series.	5 Nos.	Each		
70	Supply of Response Indicator(RI)	5 Nos.	Each		

Abstract - Bill of Quantities

(Annexure - F)

Name of Work: Annual Repair & Maintenance of Civil work

Sr. No.	DSR No	Description	Unit	Qty.	Rate	Amount
	9.70	Providing and fixing IS : 12817 marked stainless steel butt hinges with stainless steel screws etc. complete :				
	9.70.2	100X58X1.90 mm	Each	10.00		
	9.70.4	50x37x1.50 mm	Each	10.00		
	9.71	Providing and fixing IS : 12817 marked stainless steel butt hinges (heavy weight) with stainless steel screws etc. complete :				
	9.71.2	100x60x2.50 mm	Each	20.00		
	9.71.3	75x50x2.50 mm	Each	20.00		
	9.121	Providing and fixing Fiber Glass Reinforced plastic (FRP) Door Frames of cross-section 90 mm x 45 mm having single rebate of 32 mm x 15 mm to receive shutter of 30 mm thickness .The laminate shall be moulded with fire resistant grade unsaturated polyester resin and chopped mat. Door frame laminate shall be 2 mm thick and shall be filled with suitable wooden block in all the three legs. The frame shall be covered with fiber glass from all sides. M.S. stay shall be provided at the bottom to steady the frame.	Mtr.	10.00		
	9.122.1	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 5 mm thick FRP laminate for panels conforming to IS: 14856, including fixing to frames.	Sq. mtrs.	10.00		
	9.129	Providing and fixing cup board shutters 25 mm thick, with Pre-laminated flat pressed three layer particle board or graded wood particle board IS:12823 marked, exterior grade (Grade I Type II), having one side decorative lamination and other side balancing lamination, including IInd class teak wood lipping of 25 mm wide x12 mm thick with necessary screws and bright finished stainless steel piano hinges, complete as per direction of the Engineer-in-Charge	Sq. mtrs.	10.00		
	9.130.1	Providing and fixing cup board shutters with 25 mm thick veneered particle board IS : 3097 marked, exterior grade (Grade I), of approved ake,including IInd class teak wood lipping of 25 mm wide x 12 mm thick with necessary screws and bright finished stainless steel piano hinges,complete as per direction of Engineer-in-Charge 9.130.1 With decorative veneering on one side and commercial veneering on other side	Sq. mtrs.	8.00		
	2.31	Cleaning jungle including uprooting of rant vegetation, grass, bruch wovel trees and sapling of girth upto 30cm measured at a height of 1 metre above ground level and recommend of rubbish upto a distance of 50 metres outside the periphery of the area cleared. (Rate shall be quoted per 100sq mtrs.)	sq. mtrs.	1000.00		
	2.32	Surface dressing of the ground including removing vegetation and in equalities not exceeding 15cm deep and disposal of rubbish, lead upto 50m and lift upto 1.5m : All kinds of Soil. (Rate shall be quoted per 100 sq mtrs.)	sq. mtrs.	1000.00		
	2.8	Earthwork in excavation over areas (exceeding 30cm in depth 1.5m in width as well as 10Sq. Mtrs. On plan) including disposal of excavated earth.	Cu.mtr.	5.00		
	2.9	Earthwork in excavation in foundation in trenches or drains (not exceding in 1.5m in width or 10Sq.mtrs. On plan) including dressing of sides and ramming.	Rm.	50.00		
	2.13.1.2	a)Pipes, cables etc. exceeding 80mm dia, but not exceeding 300mm as approved by Engineer.	Rm.	10.00		

Civil

19.19.1 .2	Providing precast RCC covers 50 mm thick of size 450mm x 450mm as approved by Engineer.	Each	10.00		
9.71.2	Providing and fixing IS: 12817 marked stainless steel butt hinges (heavy weight) with stainless steel screws etc. complete: 100x60x2.50mm	Each	15.00		
9.71.3	Providing and fixing IS: 12817 marked stainless steel butt hinges (heavy weight) with stainless steel screws etc. complete: 75x50x2.50 mm	Each	50.00		
21.4.1	Providing and fixing double action hydraulic floor spring of approval 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-charge with stainless steel cover plate.	Each	5.00		
11.36	Providing & fixing 1st quality ceramic glazed wall tile confirming to IS : 15622 (thickness to be specified by manufacturer) of approved make in all colour, shades except burgundy, bottle green, black of any size as approved by engineer- in -charge in skirting, riser of steps and dado over 12mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @3.3 kg per Sq.mtrs.including pointing in white cement mixed with	sq.mtrs.	20.00		
11.38	Providing and laying ceramic glazed floor 300 x 300 mm tile (thickness to be specified by manufacturer) of list quality confirming to IS : 15622 approved make in all colour, shades except white, ivory, grey, fume red brown laid on 20 mm thick bed of cement mortar 1:4 (1 cement : 4 coarse sand) including pointing the joints with white cement and matching pigment	sq.mtrs	20.00		
8.9.1.2	Providing & fixing of granite stone wall cladding as per drawing over 20 mm (av) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab with 1:4 (1 cement : 4 coarse sand) as per design pattern including rubbing, mirror polishing complete, including protection with pop layer and subsequent removal during construction over 0.5 Sq.mtrs.	sq. mtrs.	25.00		
8.2.2.2	Providing & fixing of granite stone flooring over 20mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab with 1:4 (1 cement : 4 coarse sand) as per design pattern including rubbing, mirror polishing complete including protection with pop layer	sq. mtrs.	15.00		
	Providing and laying polished 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:4coarse sand)9 including grouting the joints with white cement and matching pigments etc.				
11.41.1	a) Size of tile 50x50cm	Sq. mtrs.	20.00		
11.41.2	b) Size of tile 60 x60cm	Sq. mtrs.	20.00		
26.28.2	Chipping of unsound/weak concrete material from slabs, beams, columns etc. with manual Chisel and/ or by standard power driven percussion type or of approved make including tapering of all edges, making square shoulders of cavities including cleaning the exposed concrete surface and reinforcement with wire brushes etc. and disposal of debris for all lead and lifts all complete as per direction of Engineer-In-Charge 50mm average thickness	sq. mtrs.	50.00		
26.3	Cleaning of reinforcement from rust from the reinforcing bars to give it a total rust free steel surface by using alkaline chemical rust remover of approved make with paint brush and removing loose particles after 24 hours of its application with wire brush and thoroughly washing with water and allowing it to dry, all complete as per direction of Engineer-In-Charge.				
26.29.1	Bars upto 12 mm diameter	Mtr.	100.00		

26.29.2	Bars above 12 mm diameter	mM	100.00		
26.30.1	Drilling suitable holes in reinforced or plain cement concrete with power driven drill machine to a minimum depth of 100mm upto 200mm in RCC beams, lintels, columns and slabs to introduce steel bars for sunshades/balconies including fixing the steel bars in position using epoxy resin anchor grout of approved make but excluding the cost of reinforcement, all complete as per direction of Engineer-In-Charge. Upto and including 12mm dia.	Each	30.00		
26.31.2	Providing, mixing and applying bonding coat of approved adhesive on chipped portion of RCC as per specifications and direction of Engineer-In-charge complete in all respect. Epoxy bonding adhesive having coverage 2.20 sqm/kg of approved make	sq. mtrs.	30.00		
26.32.2	Providing, mixing and applying SBR polymer (of approved make) modified Cement mortar in proportion of 1:4 (1 cement: 4 graded coarse sand with polymer minimum 2% by wt. of cement used) as per specifications and directions of Engineer-in-charge. Note: Measurement and payment: The pre-measurement of thickness shall be done just after the surface preparation is completed and Payment under this item shall be made only after proper wet curing has been done and surface has been satisfactorily evaluated by sounding / tapping with a blunt metal instrument and/or the 75mm size cube crushing strength at the end of 28 days to be not less than 30 N/mm ² .25 mm average thickness in 2 layers.	sq. mtrs.	30.00		
26.34.1	Providing and laying SBR Polymer modified (of approved make @ minimum 2% by wt. of cement used) plain/reinforced concrete jacket for the structural members e.g. columns, pillars, piers, beams etc with concrete having the specified minimum characteristic compressive strength [with ordinary portland cement, coarse sand and graded stone aggregate of 10mm maximum size in proportion as per design criteria] with specified average thickness all-round existing core of RCC member. Note: Rates shall be for finished surface area of concrete and shall include the cost of making holes in existing RCC slab, if required, for pouring concrete in shuttering mould of jacket and appropriate approved Super-Plasticiser for rendering concrete as flowable self compacting and SBR polymer but shall exclude cost of reinforcement, 50mm thick in Grade M 25 with cement content not less than 330 kg per cum and coat, Shear Keys, centering and shuttering, strutting, propping etc (Payment under this item shall be made only after proper wet curing has been done and surface has been satisfactorily evaluated by sounding/tapping with 50mm thick in Grade M 25 with cement content not less than 330 kg per cum a blunt metal Instrument)				
	50mm thick in Grade M 25 with cement content not less than 330 kg per cum	sq. mtrs.	30.00		
26.34.2	75mm thick in Grade M 25 with cement content not less than 330 kg per cum	sq. mtrs.	30.00		
26.35.3	Providing and injecting approved grout in proportion recommended by the manufacturer into cracks/honey-comb area of concrete/ masonry by suitable gun/pump at required pressure including cutting of nipples after curing etc. complete as per directions of Engineer-In-Charge. (The payment shall be made on the basis of actual weight of approved grout injected.) Epoxy injection grout in concrete/RCC work of approved make	Kg	25.00		

Civil

21.18	Providing and fixing 12 mm thick frameless 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 direction of Engineer-in-charge (Door handle, lock and stopper etc.to be paid separately).	Sq. mtrs.	10.00		
9.10.1	Providing and fixing factory made laminated veneer lumber glazed shutter conforming to IS: 14616 and TADS 15:2001 (Part B), using 4 mm thick float glass panes for doors, windows and clerestory windows, including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws, all as per directions of Engineer-in-charge 30 mm thick shutters	Sq. mtrs.	15.00		
9.11.1	Extra for providing heavy sheet float glass panes instead of ordinary float glass in glazed doors, windows and clerestory window shutters. (Area of opening for glass panes excluding portion inside rebate shall be measured) 5.5 mm thick instead of 4 mm thick.	Sq. mtrs.	15.00		
9.12	9.12 Extra for providing frosted glass panes 4 mm thick instead of ordinary float glass panes 4 mm thick in doors, windows and clerestory window shutters. (Area of opening for glass panes excluding portion inside rebate shall be measured).	Sq. mtrs.	15.00		
	Repairs to plaster of thickness 12mm to 20mm in patches of area 2.5sq.meters and under including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete dumping ground within 50 meters lead.				
14.1.1	With cement mortar 1:4(1 cement: 4 fine sand)	Sq. mtrs.	100.00		
	Deployment of following man-power on call within 24 hours notice				
0114	Sewerman	Day	250.00		
0114	Helper	Day	250.00		
0116	Plumber	Day	250.00		
15.60	Disposal of debris etc. by truck including loading and unloading.	Cu. mtr.	20.00		
14.75A	Cleaning of terrace/loft water storage tank (inside surface area) upto 2000 litre capacity at all heights with coconut brushes, duster etc., removal of silt, rubbish from the tank and cleaning the tank with fresh water disinfecting with bleaching powder @ 0.5gm per litre capacity of tank, including marking the date of cleaning on the side of tank body with the help of stencil and paint and disposing of malba, all complete as per direction of Engineer-in-Charge. (The old date already written on tank should be removed with paint remover or black paint and if date is not written with the stencil or old date is not removed deduction will be made @ Rs. 0.10 per litre if during cleaning any GI fittings or ball cock is damaged that is to be repaired by contractor at his own cost and nothing extra will be paid on this account)	Litre	400000.00		
9.100.2	Providing and fixing aluminum handle 100mm long of existing design to any furniture unit such as cabinet, cupboard, table etc.	No	15.00		
14.72	Providing and fixing double scaffolding system (cup lock type) on the exterior side, up to seven story height made with 40mm dia. M.S. Tube 1.5m center horizontal and vertical tubes joining with cup and lock system with M.S. tubes, M. S. tube challies, M. S. clamps and M. S. staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for the required duration as approved and removing it thereafter. The scaffolding system shall be stiffened with bracings, runners, connection with the building etc. wherever required for inspection of work at required locations with essential safety features for the workmen etc. complete as per directions and approval of engineer-in-charge, the lavational area of the scaffolding shall be measured for payment purpose. The payment will be made once irrespective of	Sq. mtrs.	100.00		

Civil

7.2.1	Random rubble masonry with hard stone in superstructure above plinth level and upto floor fifth including levelling up with cement concrete 1:6:12 including pointing	Cu mter	4.00		
13.45.1	Texture paint finishing as per manufacturer's specification and as directed for superfine of unitle or approved equivalent applied at the ratre of 1kg/Smtr with rollers,	Sq. mtrs.	400.00		
14.66.1	Finishing walls with Acrylic Smooth exterior paint of required shade :Old work (Two or more coat applied @ 1.67 ltr/ 10sqm) on existing cement paint surface	Sq. mtrs.	400.00		
14.54.1	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	Sq. mtrs.	100.00		
13.85.3	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre	Sq. mtrs.	800.00		
13.82.2	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.	Sq. mtrs.	800.00		
21.7.1	Providing and fixing machine moulded aluminum covering of approved pattern & design, made out of machine cut aluminium sheet and machine holed for receiving dash fastener, over expansion joints on vertical surfaces/ceiling floors, the fixing on plate in one row on one side of joint only shall be done with stainless steel dash fasteners of 8 mm dia and 75 mm long bolt including providing aluminium washers 2 mm thick & 15 mm dia , at a staggered pitch of 200mm centre to centre including drilling holes in the receiving surface and providing expandable plastic sleeves in holes etc. complete as per direction of Engineer-in-charge. Anodised aluminium sheet 2.5mm thick (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	Kg	50.00		
21.8.1	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 Upto 5mm depth and 5 mm width	R M	100.00		
10.1	Structural steel work in single section fixed with or without connecting plate including cutting, hoisint, fixing in position and applying a primary coat of approved steel primer all complete	Kg	1000.00		
12.15	Painting top of roofs with bitumen of approved quality at 17kg/per 10sqm impregnated with brushes and finally with a piece of cloth lightly soaked in kerosene oil complete. With residual type petroleum bitumen of penetration VG-10	Sq. mtrs.	300.00		
14.77	Cleaning of chocked sewer line by diesel running vehicle mounting hydraulic operated high pressure suction cum jetting sewer cleaning machine fitted with pump having 4000 litres suction capacity and 6000 litres water jetting tank capacity including skilled operator, supervising engineer etc. for cleaning and partial desilting of manholes and dechocking of sewer lines. Dechocking and flushing of sewer line from one manhole to another by high pressure jetting system of 2200 PSI for sewer line from 150mm dia upto 300mm dia for all depth.	meter	100.00		
13.12	18mm cement plaster in two coats under layer 12mm thick in cement plaster 1:5 (1cement 5 coarse sand) and a top layer 6mm thick in cement mortar 1:3 finished rough with sponge.	Sq. mtrs.	50.00		

12.45.1	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 flange fixed to the ceiling with dash fastener 12.5mm dia x 40mm long with 6mm dia bolts to the angle hangers of 25x25x0.55mm of required length, and other end of angle hanger being fixed with nut and bolts to G.I. Channels 45x15x0.9mm running at the rate of 1200mm centre to centre to which the ceiling section 0.5mm thick button wedge of 80mm with tapered flanges of 26mm each having clips of 10.5mm at 450mm centre to centre shall be fixed in a direction perpendicular to G. I. Channel with connecting clips made out of 2.64bb 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, thrills, 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:- 12.5mm thick tapered edge gypsum board conforming to IS:2095-Part-I.	Sq. mtrs.	30.00		
13.26	Providing and applying plaster of paries putty of 2mm thickness over plastered surface to prepare the surface even and smooth complete	sq. mtrs.	50.00		
18.10.6	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, l/c cutting and making good the walls etc.50 mm dia nominal bore	R M	10.0		
18.12.8	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc.80 mm dia nominal bore	R M	10.0		
18.10.1	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, l/c cutting and making good the walls etc.15 mm dia nominal bore	R M	10.0		
19.1.2	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	R M	10.0		
19.1.4	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 :250 mm diameter	R M	20.0		
19.4	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design:19.4.1 100x100 mm size P type 19.4.1.1 With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	No.	5.0		
19.18.3	Supplying and fixing C.I. cover without frame for manholes :19.18.3 560 mm diameter C.I. cover (heavy duty) the weight of the cover to be not less than 108 kg	No	4.0		
18.17.4	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) 50 mm nominal bore	No.	7.0		
18.19.4 .1	Providing and fixing gun metal non- return valve of approved quality (screwed end) 50 mm nominal bore:Horizontal	No.	2.0		
18.19.4 .2	Providing and fixing gun metal non- return valve of approved quality (screwed end) 50 mm nominal bore:Vertical	No	2.0		

10.6.1	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	sq m	5.000		
19.2.2	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete as per standard design :150 mm diameter S.W. Pipe	R M	30.000		
17.35.1 .2	Providing and fixing soil, waste and vent pipes 100 mm dia Centrifugally cast (spun) iron socket & spigot (S&S) pipe as per IS: 3989	R M	20.000		
17.35.2 .2	Providing and fixing soil, waste and vent pipes 75 mm diameter Centrifugally cast (spun) iron socketed pipe as per IS: 3989	R M	30.000		
17.38.1 .2	Providing and fixing bend of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.100 mm dia Sand cast iron S&S as per IS – 3989	No	6.000		
17.38.2 .2	Providing and fixing bend of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.75 mm dia Sand cast iron S&S as per IS- 3989	No	15.000		
17.39.1 .2	Providing and fixing plain bend of required degree 100 mm dia Sand cast iron S&S as per IS : 3989	No.	12.000		
17.39.2 .2	Providing and fixing plain bend of required degree 75 mm dia Sand cast iron S&S as per IS : 3989	No.	15.000		
17.41.1 .2	Providing and fixing double equal junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and Complete 100x100x100x100 mm Sand cast iron S&S as per IS – 3989	No.	8.000		
17.41.2 .2	Providing and fixing double equal junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts Complete 75x75x75x75 mm Sand cast iron S&S as per IS – 3989	No.	10.000		
17.43.1 .2	Providing and fixing single equal plain junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete 100x100x100 mm Sand cast iron S&S as per IS – 3989	No.	5.000		
17.43.2 .2	Providing and fixing single equal plain junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.75x75x75 mm Sand cast iron S&S as per IS – 3989	No.	15.000		
19.30.3 .1	Constructing brick masonry chamber for underground C.I. Inspection chamber and bends with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg), R.C.C. Top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:5:10 (1 cement : 5 coarse sand (Zone III) : 10 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand), finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete as per standard design:Inside dimensions 600x 850 mm and 45 cm deep for pipe line with three or more inlets : With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	5.00		
19.31.3 .1	Extra for depth beyond 45 cm of brick masonry chamber :For 600x850 mm size 19.31.3.1 With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	meter	2.00		

19.9.1.1	Constructing brick masonry circular type manhole 0.91 m internal dia at bottom and 0.56m dia at top in cement mortar 1:4 (1 cement: 4 coarse sand), inside 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 40 mm nominal size), and making necessary channel 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, all complete as per standard design : 0.91 m deep with SFRC cover and frame (heavy duty, HD-20 grade designation) 560 mm internal diameter conforming to I.S. 12592, total weight of cover and frame to be not less than 182 kg., fixed in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including centering, shuttering all complete. (Excavation, foot rests and 12mm thick cement plaster at the external surface shall be paid for separately) :19.9.1.1 With common burnt clay F.P.S. (non modular)bricks of class designation 7.5	No	1.00		
19.10.1	Extra depth for circular type manhole 0.91m internal dia (at bottom) with beyond 0.91m to 1.67mWith common burnt clay F.P.S. (non modular) bricks of class designation 7.5	meter	3.00		
	SUM OF DSR ITEM				
	ADD COST INDEX = 138-102/102	0.35			
	DSR TOTAL				
MR.	Supplying and fixing C.I. Cover to R.C.C. Under grand water tank of require as per site requirement.	Each	4.00		
MR.	Providing and Fixing CP Long Body bib Cock (Jaguar Cat.No 23107	Each	4.00		
MR.	Providing and Fixing CP Long Body Swan neck for Kitchen Sink with regular swinging spout (wall mounted) etc. complete Jaguar Cat No.5347	Each	4.00		
MR.	Tap swirl long body (Jaguar)	Each	4.00		
MR.	Providing and fixing white vitreous china oval wash basin for top counter mounting of size 550 x 480 mm with special fabricated brackets painted with, 15 mm CP brass central hole lever CP bottle trap & pipe to wall with flange & rubber adopter for waste connection complete including cutting & making good the floor where required (Parryware)	Each	3.00		
MR.	C.P.Waste coupling	Each	8.00		
MR.	Providing and fixing white glazed vitreous china Floor mounting European type water closet with C.P. Bolts, nuts, white solid plastic seat with lid, C.P. Brass hinges and rubber buffers, white vitreous china dual flushing cisterns (6/3 litres) PVC connector and C.P. Brass screws and washers complete, including cutting and making good the walls floors where required. Parryware Cascade Floor Type W.C. P or S Trap as per site requirement Cat No. 0216	Each	3.00		
MR.	Providing and Fixing Twin Bib Cock near WC for Jet Spray. (Jaquar ALI-85041)	Each	5.00		
MR.	Providing and Fixing Angular Stop Cock for WC, Wash Basin. (Jaquar Cat. No 041)	Each	4.00		
MR.	Providing and Fixing Jet Spray for WC (Jaquar cat no.)	Each	5.00		
MR.	Providing and Fixing PVC Connection pipe for wash basin, WC etc complete for required length	Each	6.00		
MR.	Providing and Fixing CP Jalli of 100mm dia including cutting and making good floors wherever required	Each	8.00		
MR.	Providing and Fixing SS Toilet Paper Holder (Jaquar Cat.No.1151)	Each	8.00		
MR.	Soap dish (Jaguar)	Each	8.00		
MR.	Providing and fixing 110mm UPVC pipes for drainage to IS: 4985 including matching fittings with rubber 'O' ring or solvent weld joints, testing cutting and making good the walls and floors wherever required.	RM	20.00		

	MR.	PVC plain bend 100 mm	Each	25.00		
	MR.	PVC door bend 100 mm	Each	25.00		
	MR.	PVC Ptrap 100 mm	Each	10.00		
	MR.	Providing and fixing UPVC trap of self cleansing design with or without vent arm including cost of cutting and making good the walls and floors where required. Plain/ Multi trap 100mm (4")	Each	3.00		
	MR.	Providing and Fixing SS Door Handles with Mortise Lock which includes cylinder, thumb turn, dead lock, emergency slot wherever required as per site requirement in all types of doors of Golden make etc.	Each	10.00		
	MR.	P/F SS dead lock for door	Each	15.00		
	MR.	P/F SS door stopper	Each	20.00		
	MR.	P/F of heavy duty door closer (Dorset)	Each	32.00		
	MR.	Providing and Fixing Toilet Door Hinge Spring/ Capsule Door Closure with necessary hardware etc complete.	Each	8.00		
	MR.	Providing and Fixing 6mm Mirror backed by 12mm BWP ply, fixed on wall with S.S. Studs/ spaces, including edge polishing hole cutting complete as/dwg.	Sq.mtrs.	6.00		
	MR.	Providing and Fixing Aluminium Toilet Louver with necessary glass panes of 4mm thick etc. complete.	Sq.mtrs.	4.00		
	MR.	Providing and fixing white vitreous china semistall lipped urinal size 645 x 410 mm C.I. Hanger, integral battery operated sensor flush valve, C.P> spreader, 32mm CP cast brass bottle trap & pipe to wall complete including cutting and making good the walls where required (Parryware)	Each	4.00		
	MR.	Providing and Fixing Vertical Fabric Blinds fixed at all levels and sizes as per the manufactures specifications (MacDecor/equivalent).	Sq.mtrs.	4.00		
	MR.	Providing precast RCC covers 50 mm thick of size 300mm x 300mm as approved by Engineer.	Each	5.00		
	MR.	Removal of existing worn out hinges of any type and size including reinstating damaged wooden surface.	Each	20.00		
	MR.	Providing and fixing SS tower bolt 100mm size Jolly, King make or equivalent including removing the existing defective/damaged tower bolt.	Each	20.00		
	MR.	Providing and fixing SS tower bolt 150mm size Jolly, King make or equivalent including removing the existing defective/damaged tower bolt.	Each	15.00		
	MR.	Removal of existing defective floor spring of any type & design including reinstating the floor damages.	Each	5.00		
	MR.	Removing the existing defective floor spring, repairing the same and refixing in position including removal and refixing of the connected door and reinstatement of floor damages etc. complete.	Each	5.00		
	MR.	Providing and fixing in position top pivot (patch fitting) of the glazed door of the make/brand approved by the Engineer in place of defective top pivot of the door etc. complete.	Each	5.00		
	MR.	Removing existing broken/dislodged granite stone in flooring/dado/skirting including breaking the dry cement mortar in the backing/bed, cleaning the surface and taking away the debris out of the premises.	Sq.mtrs.	10.00		
	MR.	Re fixing the existing grantie stone in dado/flooring that is dislodged from position or loosened, including 20mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab eith 1:4(1cement:4 course sand) as per design pattern including rubbing, mirror polishing complete including protection with pop.	Sq. mtrs.	5.00		
	MR.	Filling up the cracks in cement plaster/POP on the walls at any height including opening the crack V-cut filling it with the crack filling compound manufactured by Dr. Fixit, Roff or equivalent including curing and matching with surrounding surface etc. complete as directed by the	R M	20.00		

Civil

MR.	Providing Iron Ladder 300mm wide fabricated using G I Pipes 25mm dia and 15mm dia for steps at 300mm spacing including painting etc. complete.	R M	6.00		
MR.	Providing integral battery operated sensor flush valve, vitreous china semistall lipped urinal of size 645 x 410mm (Parryware Cat NO. C8098)	No	10.00		
MR.	Providing and fixing SS locks to existing design to any furniture unit such as cabinet, cupboard table etc.	No	10.00		
MR.	Re fixing of SS locks to any furniture unit such as cabinet, cupboard, table etc.	No	25.00		
MR.	Providing and fixing laminate of existing design and thickness in place of damaged laminate of any furniture unit such as cabinet, cupboard, table etc. including removal of existing damaged laminate, cleaning the surface etc. complete.	Sq. mtrs.	20.00		
MR.	Repairs to damaged table and restoring to its original condition including necessary labour and material required	Nos.	20.00		
MR.	Repairs to damage cabinet and restoring to its original condition including necessary labour and material required.	Nos.	20.00		
MR.	Repairs to damaged cupboards and restoring it to its original condition including necessary labour and material.	Nos.	20.00		
MR.	Providing and fixing in position prelaminated plywood/particle board as per the design and thickness of the existing damaged panel/shutter including the removal of existing damaged panel/shutter etc. complete.	Sq. mtrs.	10.00		
MR.	Providing and fixing C.P. Pillar cock with side knob as per existing design for wash basin-Jaguar brand.(CQT-23123)	No.	6.00		
MR.	Providing and installing new press knob along with spring and siphon for the flushing cistern, "Parryware" make in place of defective press knob/siphon.	No.	4.00		
MR.	Concealed pipe with anti-corrosive bituminous pain, cutting chases and making good the wall.				
	15mm	R M	10.00		
	20mm	R M	10.00		
MR.	Providing and fixing S. S. buttons supporting shelf of cabinet.	No	15.00		
MR.	Filling joints of floor tiles of any type, with white cement/grey cement as required.	Sq. mtrs.	15.00		
MR.	Providing and laying suspended grid of aluminum sections for ceiling of size 600x600mm with insets of acoustic mineral fibre tiles duly placed in the grid, with all adjustable hangers, leveling and finishing complete as per manufactures specifications.	Sq. mtrs.	20.00		
MR.	Providing and applying POP punning to wall of average 12mm thickness to line level plumb including surface preparation required punning to be under taken and completed in workman like manner to ensure desired finish standards as per	Sq. mtrs.	50.00		
MR.	Polishing on wood work with Melamine polish of approved brand and manufacture	Sq. mtrs.	10.00		
MR.	Cleaning of storm water drains of minimum 30cm wide and 20cm deep including removing grass, vegetation, muck, rubbish, malba etc. stacking and disposable material to dumping ground as directed by Engineer-in-charge.	RM	100.00		
MR.	Providing and fixing 32mm bottle C. P. brass trap and pipe to wall with C. P. wall flange and rubber adopter for waste connection complete. Including cutting and making good the walls where required. For washbasin with S S Jalie (Jaguar)	Each	6.00		
MR.	Providing and fixing 32mm C. P. brass bottle trap and pipe to wall with C. P. wall flange and rubber adopter for waste connection complete. Including cutting and making good the walls where required. For urinal with S S Jalie (Jaguar)	Each	6.00		
	SUM OF NDSR ITEM (MR)				
	TOTAL OF DSR + NDSR				

<u>Credit for Salvage Material</u>					
	Iron/Steel		Kg	20.00	
	Plastic		Kg	5.00	
	Aluminium		Kg	20.00	
	Brass		Kg	50.00	
	Copper		Kg	2.00	
	Wood		Lot	Lump Sump	

GRAND TORAL