

**TENDER DOCUMENT
FOR**

**Repair and Renovation of Civil & Electrical Works for
'Copyright Board & Copyright Office (CRB&CRO)' at August
Kranti Bhawan, Bhikaji Kama Place, New Delhi**

MAY, 2014

VOLUME- IV: SCHEDULE OF QUANTITIES



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Note : This document is serially numbered from page 01 to 42.

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SUMMARY

S.No	Sub head	Amount
1.	Civil Works	Rs.
2.	Electrical Works	Rs.
	Total	Rs.

Rupees (In words)

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S.No.	Description	Qty.	Unit	Rate (In Rs.)		Amount (Rs.)
				In figure	In words	
Civil Works						
1.	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m : All kinds of soil,Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia	40	Metre			
2.	Providing and laying cement concrete in retaining walls, return walls,walls (any thickness) including attached pilasters, columns, piers,abutments, pillars, posts, struts, buttresses, string or lacing courses,parapets, coping, bed blocks, anchor blocks, plain window sills, fillets,sunken floor,etc., up to floor five level, excluding the cost of centering, shuttering and finishing : 1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	3	Cum			

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S.No.	Description	Qty.	Unit	Rate (In Rs.)		Amount (Rs.)
				In figure	In words	
3.	Centering and shuttering including strutting, propping etc. and removal of form work for :Foundation, footing, bases for columns	20	Sqm			
4.	Providing, hoisting and fixing up to floor five level precast reinforced cement concrete in small lintels not exceeding 1.5 m clear span up to floor five level, including the cost of required centering, shuttering but excluding the cost of reinforcement, with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	1	Cum			
5.	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.	150	Kilogram			
6.	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in : Cement mortar 1:3 (1 cement : 3 coarse sand).	52	Sqm.			
7.	Extra for providing and placing in position 2 Nos 6mm dia. M.S. bars at every third course of half brick masonry.	52	Sqm.			

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S.No.	Description	Qty.	Unit	Rate (In Rs.)		Amount (Rs.)
				In figure	In words	
8.	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).					
	a) Second class teak wood	0.719	Cum			
	b) Kiln seasoned and chemically treated hollock wood	0.2	Cum			
9.	Providing and fixing glazed shutters for doors, windows and clerestory windows using 4 mm thick float glass panes, including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws. Second class teak wood-35 mm thick	46.20	Sqm.			
10.	Extra for providing ISI marked Stainless Steel butt hinges instead of M.S. pressed butt hinges bright finished of required size with necessary screws. (Shutter area to be measured).	46.20	Sqm.			

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S.No.	Description	Qty.	Unit	Rate (In Rs.)		Amount (Rs.)
				In figure	In words	
11.	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.	46.20	Sqm.			
12.	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.35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	9.45	Sqm.			
13.	Providing and fixing bright finished brass 100 mm mortice latch and lock with 6 levers and a pair of lever handles of approved quality with necessary screws etc. complete.	26	Each			
14	Providing and fixing bright finished brass hanging type floor door stopper with necessary screws, etc. complete.	26	Each			

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S.No.	Description	Qty.	Unit	Rate (In Rs.)		Amount (Rs.)
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15	Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm), with necessary accessories and screws etc. complete.	26	Each			
16.	Providing and fixing partition upto ceiling height consisting of G.I. frame and required board, including providing and fixing of frame work made of special section power pressed/ roll form G.I. sheet with zinc coating of 120 gms/sqm(both side inclusive), consisting of floor and ceiling channel 50mm wide having equal flanges of 32 mm and 0.50 mm thick, fixed to the floor and ceiling at the spacing of 610 mm centre to centre with dash fastener of 12.5 mm dia meter 50 mm length or suitable anchor fastener or metal screws with nylon plugs and the studs 48 mm wide having one flange of 34 mm and other flange 36 mm and 0.50 mm thick fixed vertically within flanges of floor and ceiling channel and placed at a spacing of 610 mm centre to centre by 6 mm dia bolts and nuts, including fixing of studs along both ends of partition fixed flush to wall with suitable anchor fastener or metal screws with nylon	525.00	Sqm.			

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S.No.	Description	Qty.	Unit	Rate (In Rs.)		Amount (Rs.)
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	plugs at spacing of 450 mm centre to centre, and fixing of boards to both side of frame work by 25 mm long dry wall screws on studs, floor and ceiling channels at the spacing of 300 mm centre to centre. The boards are to be fixed to the frame work with joints staggered to avoid through cracks, M.S. fixing channel of 99 mm width (0.9 mm thick having two flanges of 9.5 mm each) to be provided at the horizontal joints of two boards, fixed to the studs using metal to metal flat head screws, including jointing and finishing to a flush finish with recommended jointing compound, jointing tape, angle beads at corners (25 mm x 25 mm x 0.5 mm), joint finisher specification and direction of engineer in charge all complete. 66mm overall thickness Partition with 8mm thick double skin Calcium Silicate Board made with Calcareous & Siliceous materials reinforced with cellulose fiber manufactured through autoclaving process with Compressive Strength 225 kg/sq.cm, Bending Strength 100 kg./ sq.cm					

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S.No.	Description	Qty.	Unit	Rate (In Rs.)		Amount (Rs.)
				In figure	In words	
17.	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.	100	Kg			
18.	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	114	Sqm.			
19.	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming 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 (1 Cement : 4 Coarse sand), including pointing the joints with white cement and matching pigment etc., complete.	30	Sqm			

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20.	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) : 25 mm thick sqm	5	Sqm.			
21.	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. 1.00 mm thick with zinc coating not less than 275 gm/m ²	10	Sqm.			

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S.No.	Description	Qty.	Unit	Rate (In Rs.)		Amount (Rs.)
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22.	Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm	520.1 1	Sqm.			

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S.No.	Description	Qty.	Unit	Rate (In Rs.)		Amount (Rs.)
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	interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound ,jointing tapes, finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's 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 drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with : 12.5 mm thick tapered edge gypsum fire resistant board conforming to IS: 2095- Part I					
23.	12 mm cement plaster of mix : 1:4 (1 cement: 4 fine sand)	66	Sqm.			
24.	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade : Two or more coats on new work .	1590	Sqm.			

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S.No.	Description	Qty.	Unit	Rate (In Rs.)		Amount (Rs.)
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25.	Making the opening in brick masonry including dismantling in floor or walls by cutting masonry and making good the damages to walls, flooring and jambs complete, to match existing surface i/c disposal of mulba/ rubbish to the nearest municipal dumping ground. For door/ window/ clerestory window	50	Sqm.			
26.	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	576.8 7	Sqm.			
27.	Dismantling of flushing cistern of all types (C.I./PVC/Vitrious China) including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead.	6	Each			
28.	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	10	Cum			
29.	Dismantling tile work in floors ,wall and roofs laid in cement mortar including stacking material within 50 metres lead.					
	a) For thickness of tiles 10 mm to 25 mm	58.68	Sqm.			
	b) For thickness of tiles above 25 mm and up to 40 mm	100	Sqm.			

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S.No.	Description	Qty.	Unit	Rate (In Rs.)		Amount (Rs.)
				In figure	In words	
30.	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.	4	Each			
31.	Providing and fixing Jaquar/Hindware two piece wall hung extended EWCs with cistern, seat cover and twin flush fittings 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.	1	Each			
32.	Providing and fixing Hindware/Jaquar Bib Cock 2 in 1 and Health faucet with 1.2 mt steel flexible hose with wall hook	5	Each			

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S.No.	Description	Qty.	Unit	Rate (In Rs.)		Amount (Rs.)
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33.	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	1	Each			
34.	Range of two urinal basins with 5 litre white P.V.C. automatic flushing cistern	2	Each			
35.	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 Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps	5	Each			
36.	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. Flexible pipe 32 mm dia each	7	Each			

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S.No.	Description	Qty.	Unit	Rate (In Rs.)		Amount (Rs.)
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37.	Providing and fixing PTMT Bottle Trap for Wash basin and sink. Bottle trap 31mm single piece moulded with height of 270 mm, effective length of tail pipe 260 mm from the centre of the waste coupling, 77 mm breadth with 25 mm minimum water seal, weighing not less than 260 gms	7	Each			
38.	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 : Kitchen sink with drain board 510x1040 mm bowl depth 250 mm	2	Each			
39.	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing : Rectangular shape 453x357 mm each	5	Each			
40.	Providing and fixing Hindware /Jaquaq towel bar 60 cm long complete with cleats with CP brass screws with concealed fitting arrangement of approved quality and colour.	5	Each			
41.	Providing and fixing toilet paper holder :C.P. brass	5	Each			

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42.	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931. 15 mm nominal bore	7	Each			
43.	Providing and fixing M.S. holder-bat clamps of approved design to Sand Cast iron/cast iron (spun) pipe embedded in and including cement concrete blocks 10x10x10 cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), including cost of cutting holes and making good the walls etc. :					
	a) For 100 mm dia pipe	10	Each			
	b) For 75 mm dia pipe	10	Each			
44.	Painting sand cast iron/ centrifugally cast (spun) iron soil, waste vent pipes and fittings with two coats of synthetic enamel paint of any colour such as chocolate grey, or buff etc. over a coat of primer (of approved quality) for new work :					
	a) 100 mm diameter pipe	40	Meter			
	b) 75 mm diameter pipe	30	Meter			

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45.	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :	7	Each			
46.	Providing and fixing PTMT grating of approved quality and colour. Circular type 100 mm nominal dia	7	Each			
47.	Constructing brick masonry road gully chamber 50x45x60 cm with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) including 500x450 mm pre-cast R.C.C. horizontal grating with frame complete as per standard design : 19.27.1 With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	5	Each			
48.	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).	6.3	Sqm.			

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S.No.	Description	Qty.	Unit	Rate (In Rs.)		Amount (Rs.)
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49.	Providing and fixing plain bend of required degree.					
	a) 100 mm dia Sand cast iron S&S as per IS - 1729	5	Each			
	b) 75 mm dia Sand cast iron S&S as per IS -1729 each 218.75	5	Each			
50.	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc.					
	a) 15 mm nominal outer dia Pipes	15	Meter			
	b) 20 mm nominal outer dia Pipes	20	Meter			
	c) 25 mm nominal outer dia Pipes	15	Meter			
	d) 32 mm nominal outer dia Pipes	15	meter			

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S.No.	Description	Qty.	Unit	Rate (In Rs.)		Amount (Rs.)
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51.	Providing and fixing 18 mm thick gang saw cut, mirror polished, pre-moulded and prepolished, machine cut for kitchen. platforms, vanity counters, window sills , facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels. Granite of any colour and shade Area of slab over 0.50 sqm	6.003	Sqm.			
52.	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	380	Kg			

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	the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) : Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron)					
53.	Providing and fixing anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868. Minimum anodic coating of grade AC 15) sub frame work for windows and ventilators with extruded built up standard tubular sections of approved make conforming to IS: 733 and IS: 1285, fixed with dash fastener of required dia and size (Dash fastener to be paid for separately).	380	Kg			
54.	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item): With float glass panes of 5.50 mm thickness	33.28	Sqm.			
55.	Providing & fixing lock in a fully glazed doors as per approved sample and direction of Engineer-in-charge	2	Nos.			
56.	Providing & fixing stainless steel high grade finish pull handles for fully glazed doors 25 mm dia & 400 mm long of	2	Nos.			

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57.	Constructing brick masonry manhole in cement mortar 1:4 (1 cement:4 coarse sand) with R.C.C. top slab with 1:2:4 mix (1 cement : 2coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand: 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	4	Each			
58.	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.	3	Cum			
59.	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.	38	Sqm.			

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60.	Providing and fixing double action hydraulic floor spring of approved brand and manufacture conforming to IS : 6315, having brand logo embossed on the body / plate with double spring mechanism and door weight upto 125 kg, for doors, including cost of cutting floors,embedding in floors as required and making good the same matching to the existing floor finishing 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 minimum 1.25 mm thickness	2	Each			
61.	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	100	Meter			
62.	Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C., kitchen and the like consisting of : (i) 1st course of applying cement slurry @ 4.4 kg/sqm mixed with water proofing compound conforming to IS 2645 in recommended proportions including	20	Sqm.			

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	rounding off junction of vertical and horizontal surface. (ii) IInd course of 20 mm cement plaster 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound in recommended proportion including rounding off junction of vertical and horizontal surface. (iii) IIIrd course of applying blown or residual bitumen applied hot at 1.7 kg. per sqm of area. (iv) IVth course of 400 micron thick PVC sheet. (Overlaps at joints of PVC sheet should be 100 mm wide and pasted to each other with bitumen @ 1.7 kg/sqm).					
63.	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	50	Sqm			
64	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).	5	Sqm			
65.	Painting wood work with Deluxe Multi Surface Paint of required shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @0.75 ltr/ 10 sqm of approved brand and manufacture	25	Sqm			

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66	Extra for providing opening of required size & shape for wash basin/ kitchen sink in kitchen platform, vanity counter and similar location in marble/Granite/stone work, including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete.	2	Each			
67.	Providing and fixing specified wood frame work consisting of battens 50x25 mm fixed with rawl plug and drilling necessary holes for rawl plug etc. including priming coat complete. Kiln seasoned and chemically treated hollock wood	0.614	Cum			
68.	Providing and fixing in wall lining flat pressed three layer (medium density) particle board or graded wood Pre-laminated one side decorative lamination and other side balancing lamination Grade I, Type II, IS :12823 marked, including priming coat on unexposed surface, with necessary fixing arrangement and screws etc. complete 12 mm thick	169.14	Sqm			
69.	Providing 10 mm thick plaster of Paris (gypsum anhydrous) ceiling up to a height of 5 m above floor level, over first class kail wood strips 25x6 mm with 10 mm gap in between and reinforced with rabbit wire mesh fixed to wooden frame (frame work to be paid separately) : Curved surfaces	100	Sqm			

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S.No.	Description	Qty.	Unit	Rate (In Rs.)		Amount (Rs.)
				In figure	In words	
70.	Melamine polishing on wood work (one or more coat).	266.86	Sqm			
71.	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	584.17 2	Sqm			
72.	Providing and fixing 4 mm thick float glass panes in opening of partition with the same material and making good the damaged opening in partition and including beedings,screws.	10	Sqm			
73.	Providing and fixing false ceiling at all height for damaged portion including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound ,jointing tapes, finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's 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 drawings, specification and direction of the Engineer in Charge but excluding the cost of	50	Sqm			

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S.No.	Description	Qty.	Unit	Rate (In Rs.)		Amount (Rs.)
				In figure	In words	
	painting with, 12.5 mm thick tapered edge gypsum fire resistant board conforming to IS: 2095- Part I					
74.	Providing and fixing dry cladding upto 10 metre heights with 30 mm thick gang saw cut stone with (machine cut edges) of uniform colour and size upto 1mx1m, fixed to structural steel frame work and/ or with the help of cramps, pins etc. and sealing the joints with approved weather sealant as per Architectural drawing and direction of Engineer-in-charge. (The steel frame work, stainless steel cramps and pins etc. shall be paid for separately). Red sand stone	38	sqm			
75.	Manufacturing, supplying ,fixing and writing organization name(bi-lingual),logo on name boards 3.00 Mt X 1.00 Mt made up of 2 mm thick aluminium sheet of 3.00 Sqm , suitable sized aluminium alloy rivets @ 20 cm c/c to back support frame of M.S angle iron of size 25x25x3 mm in 11 Kg including making holes in angles . Steel work and aluminium plate to be painted with two or more coats of synthetic enamel paint of required shade and of approved brand & manufacture ,over priming coat. Backside of aluminium sheet to to be painted with two or more coats of epoxy paint over and including appropriate priming coat including all leads and lifts . etc. complete	1	1 Job			

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S.No.	Description	Qty.	Unit	Rate (In Rs.)		Amount (Rs.)
				In figure	In words	
	as per drawing , specification and direction of Engineer-in-Charge.					
76.	Making connection of drain or sewer line with existing manhole including breaking into and making good the walls, floors with cement concrete 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) cement plastered on both sides with cement mortar 1:3 (1 cement : 3 coarse sand), finished with a floating coat of neat cement and making necessary channels for the drain etc. complete : For pipes 100 to 250 mm diameter	5	Each			
77.	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).Sal wood.	0.50	Cum			
78.	25 mm wooden planking, tongued and grooved in flooring, including fixing with iron screws complete with : Second class teak wood	30.00	Sqm			

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S.No.	Description	Qty.	Unit	Rate (In Rs.)		Amount (Rs.)
				In figure	In words	
79	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade : Two or more coats on new work	570	Sqm			
80.	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	500	Sqm			
81.	French spirit polishing : Two or more coats on new works including a coat of wood filler	30	Sqm			
82.	Providing and fixing aluminium casement windows fastener of required length for aluminium windows with necessary screws etc. complete. Anodized (AC 15) aluminium	20	Each			
83.	40 mm thick fine dressed stone flooring over 20 mm (average) thick base of cement mortar 1:5 (1cement : 5 coarse sand) with joints finished flush. Red sand stone	50	Sqm			

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S.No.	Description	Qty.	Unit	Rate (In Rs.)		Amount (Rs.)
				In figure	In words	
84.	Providing and fixing on wall face unplasticised Rigid PVC 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.					
	a) 75 mm	34.86	Meter			
	b) 110 mm	55.63	Meter			
85.	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.					
	a) 75 mm Coupler	4	Each			
	b) 110 mm Coupler	4	Each			
	c) Single tee with door 75x75x75 mm	4	Each			

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S.No.	Description	Qty.	Unit	Rate (In Rs.)		Amount (Rs.)
				In figure	In words	
	d) Single tee with door 110x110x110 mm	4	Each			
	e) 75 mm bend 87.5°	6	Each			
	f) 110 mm bend 87.5°	6	Each			
86.	Providing and fixing skirting with Pre-laminated (one side decorative and other side balancing lamination) flat pressed 3 layer or graded particle board (medium density) Grade I, Type II, IS :12823 marked,with necessary fixing arrangements and screws,Including drilling necessary holes for rawl plugs etc. and priming coat on unexposed surface complete : 18 mm thick	57	Sqm.			
87.	Mirror polishing on marble work/Granite work/stone work where ever required to give high gloss finish complete.	862	sqm			
88.	Extra for providing and fixing wind ties of 40x 6 mm flat iron section.	10	metre			
89.	Providing and filling the joints with spun yarn, cement slurry and cement mortar 1:2 (1 cement : 2 fine sand) in S.C.I./ C.I. Pipes :					
	a) 75 mm dia pipe	7	each			
	b) 100 mm dia pipe	7	Each			

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S.No.	Description	Qty.	Unit	Rate (In Rs.)		Amount (Rs.)
				In figure	In words	
90.	Providing and fixing stone slab with table rubbed, edges rounded and polished, of size 75x50 cm deep and 1.8 cm thick, fixed in urinal partitions by cutting a chase of appropriate width with chase cutter and embedding the stone in the chase with epoxy grout or with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6 mm nominal size) as per direction of Engineer-in-charge and finished smooth. White Agaria Marble Stone.	2	Sqm.			
	Subtotal Carried over to Summary					
Electrical Works						
A) Wiring						
1.	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 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 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required.					
	Group-C	100	Point			

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S.No.	Description	Qty.	Unit	Rate (In Rs.)		Amount (Rs.)
				In figure	In words	
2.	Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit alongwith 1 No 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	500	Meter			
3.	Wiring for light/ power plug with 4X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit along with 2 Nos 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	100	Meter			
4.	Rewiring for Light/fan point/exhaust fan point/call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable and 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable as warth wire in existing surface/recessed steel/PVC conduit including dismantling as required.					
	Group C	25	Point			

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S.No.	Description	Qty.	Unit	Rate (In Rs.)		Amount (Rs.)
				In figure	In words	
5.	Supplying and fixing following on existing modular plate & switch box/ workstation/ table in surface/recess including connections as required.	100	Set			
	a) 6 pin 15/16 amp switch outlet-1 No.					
	b) 3 pin 5/6 amp socket outlet-3 Nos.					
	c) Modular base and cover plate of suitable modules					
6.	Supplying and fixing suitable size GI box with modular plate and cover in front of surface or in recess, including providing and fixing 3x3 pin 5/6 amps modular socket outlet and 1x15/16 amps modular switch, connection, painting etc. as required .	10	Set			
7.	Supply & Fixing modular blanking plate on the existing on the modular plate & switch box excluding modular plate as required.	20	Each			
8.	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess , including providing and fixing 6 pin 5/6 &15/16 amps modular socket outlet and 15/16 amps modular switch, connection etc, as required.	25	Each			

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S.No.	Description	Qty.	Unit	Rate (In Rs.)		Amount (Rs.)
				In figure	In words	
9.	Supplying and fixing 20 amps, 240 volts, SPN industrial type, socket outlet, with 2 pole and earth, metal enclosed plug top along with 20 amps "C" curve, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.	10	Each			
10.	Wiring for light/power plug with the following no. of 4 sqm/FRLS PVC insulated Copper Conductor single core cable in existing surface/recessed PVC conduit/raceways/inside the work station alongwith FRLS PVC insulated copper conductors single core cable for loop earthing as required.					
	a) 2x4 sq.mm+1x4 sq.mm for earthwire	1000	Meter			
	b) 4x4 sq.mm+2x4 sq.mm for earthwire	400	Meter			
11.	Wiring for circuit/sybmain wiring alongwith earth with the following sizes FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC Conduit as required.					
	a) 2x2.5 sq.mm+1x2.5 sq.mm earth wire.	1000	Meter			

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S.No.	Description	Qty.	Unit	Rate (In Rs.)		Amount (Rs.)
				In figure	In words	
	b) 2x6 sq.mm+1x6 sq.mm earth wire	100	Meter			
	c) 2x10 sq.mm+1x10 sq.mm earth wire	100	Meter			
	d) 2x16 sq.mm+1x16 sq.mm earth wire	100	Meter			
12.	Supply & Fixing of 14 SWG CRCA sheet steel painted raceways with junction boxes and 2 mm / 3 mm thick top cover electrical & LV wiring including fixing the raceway on wall/column surface with all necessary hardwares as required (In ceiling)					
	a) 100 mm x 50mm deep (2 mm)	600	RM			
Sub-total						
B) Fittings-Supplying & Installation						
13.	Supplying of 600X600 false ceiling recess mounting luminaries suitable for grid ceiling with mirrors reflectors and 4x14 W (T-5) fluorescent tube and electronics Ballast.	60	Each			

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S.No.	Description	Qty.	Unit	Rate (In Rs.)		Amount (Rs.)
				In figure	In words	
14.	Installation, testing and commissioning of pre-wired, fluorescent fitting/compact fluorescent fitting of all types, complete with all accessories and tube etc , directly ib ceiling/wall, including connection with 1.5 sw.mm FRLS PVC insulated, copper conductor, single core cable and earthing etc, as required.	60	Each			
15.	Supplying of false ceiling recess mounted CFL (Single / twin lamp) 1x18W, 2X18W down lighters without glass cover and with HF electronic ballast.	40	Each			
16.	Erection of wall bracket/ceiling rose on the existing junction box/ wooden block including connection etc as required.	40	Each			
17.	Supplying of heavy duty Exhaust Fan of 300 mm sweep suitable for 220/240 volts,50 Hz of 900 rpm single phase AC supply complete with shutter etc. as required (Bajaj/ Crompton/ Havells)	5	Each			
18.	Installation of exhaust fan in the existing opening, including making good the damage, connection, testing, commissioning etc, as required. Upto 450 mm sweep.	5	Each			
19.	Extra for fixing the louvers/shutters complete with frame for a exhaust fan of all sizes.	5	Each			
Sub-total						

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S.No.	Description	Qty.	Unit	Rate (In Rs.)		Amount (Rs.)
				In figure	In words	
C) Distribution Board						
20.	Supplying and fixing following way prewired TP&N MCB distribution board of steel sheet for 415 volts on surface/ recess complete with loose wire box, terminal connectors for all incoming and outgoing circuits, duly prewired with suitable size FR PVC insulated copper conductor up to terminal blocks, tinned copper bus bar, neutral link, earth bar, din bar, detachable gland plate, interconnections, powder painted including earthing etc. as required.(But without MCB/ RCCB/ Isolator)					
	4 way (4 + 12), Double door	4	Each			
21.	Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, "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.					
	Single pole	48	Each			

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S.No.	Description	Qty.	Unit	Rate (In Rs.)		Amount (Rs.)
				In figure	In words	
22.	Supplying and fixing following rating, four pole, 415 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
	100 amps	4	Each			
Sub-total						
D) UG cable & Earthing						
23.	Supply of 3 ½ core X 35 Sqm AL conductor, UG cable.	100	Meter			
24.	Laying & fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 K.V grade of upto 35 sq.mm (clamped with 1 mm thick saddle).	100	Meter			
25.	Providing and fixing 6 SWG Dia. GI wire or in recess for loop earthing along with existing surface/ recessed conduit/ submain wiring / cable as required.	200	Meter			
Sub-total						

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S.No.	Description	Qty.	Unit	Rate (In Rs.)		Amount (Rs.)
				In figure	In words	
E) GENERATING SET						
26.1	Supply, installation, testing and commissioning of sound attenuated weather proof type Silent DG set of 125 KVA rating complete with Diesel engine of suitable rating, 1500 rpm coupled to brushless self excited, self regulated alternator of 125 KVA, 0.8 Power Factor (p.f.), 415 Volt, 3 phase, 4 wire, 50 Hz supply system with all accessories as per detailed specifications and covering the AMF Panels & following items:					
	Sound attenuated radiator cooled type DG set with battery, battery charger and other accessories like residential silencer, flexible bellows, anti vibration mounting fuel tank 600 litre, AMF Panel etc. as required. (The rates shall be inclusive of approval of drawings and approval of the Installation from the Electrical safety Department and Pollution Control Board) including foundation as per the manufactures specifications.					

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S.No.	Description	Qty.	Unit	Rate (In Rs.)		Amount (Rs.)
				In figure	In words	
26.2	Supplying & fixing black MS 'B' class pipe for extension of exhaust system including clamps, bands flanges etc. including all hardware for fixing as required.					
	a) 125 mm dia.	25	Meter			
26.3	Providing lagging for above pipe with 40mm thick glass wool insulation and cladded with 24 SWG aluminum sheet all round including supports at app. 1 meter Intervals and clamps etc. as required for 100mm.	50	Meter			
26.4	Supplying of 25mm dia rotary manual pump for diesel fuel along with necessary hose pipe 3m long.	1	Each			
26.5	Supply & laying of one number PVC insulated & PVC sheathed power cable of 1.1 KV grade of size 3½ x 150 sqmm complete as required.	150	Meter			
26.6	Earthing with copper earth plate 600mm x 600 mm x 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and water pipe of 2.7 metre long etc. with charcoal/coke and salt as required.	4	Nos			
26.7	Providing and fixing 25 mm x 5 mm copper strip in 40 mm dia G.I. pipe from earth electrode including connection with brass nut, bolt, spring, washer excavation and re-filling etc. as required.	18	Meter			

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S.No.	Description	Qty.	Unit	Rate (In Rs.)		Amount (Rs.)
				In figure	In words	
26.8	Providing & fixing 20 mm x 5 mm copper strip on surface or in recess for connections, etc. as required	50	Meter			
27.	Supply, installation & commissioning of one new Electric Meter (commercial) duly tested by the competent authority including wiring connection with the supply line as per the standard guidelines including providing meter box . Also obtain Load Sanction from the authority, submission of load application, test reports, etc. as per the requirement. The cost should include all expenses, charges, etc. in obtaining the above connection but excluding the Security Deposit which shall be borne by the Department.	1	Job			
28.	Inspection, testing and rectification of existing wiring, DB's, fittings, etc complete as required a) DB's including replacement of defect MCB's b) Replacement of Copper Chokes 40 Watts c) Replacement of Starter 40 Watts	4 20 20	Each Each Each			

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S.No.	Description	Qty.	Unit	Rate (In Rs.)		Amount (Rs.)
				In figure	In words	
	d) Replacement of Florescent tube	20	Each			
	e) Replacement of Switch	10	Each			
29	Inspection, testing and re-commissioning of all existing Fire Alarm system including Smoke Detectors, Heat Detectors, Response Indicators and Hooters etc. complete as required.	1	Job			
30.	Replacement of defective smoke detectors with new complete in all respects.	10	Each			
Sub-total						
F) HVAC						
31.	Supply & fixing of powder coated extruded aluminum Supply Air Grills with aluminum volume control dampers as per specifications	15	Sqm.			
32.	Supply & fixing of powder coated extruded aluminum Return Air Grills without aluminum volume control dampers as per specifications	15	Sqm.			
Sub-total						
Sub-total Carried Over to summary (A) + (B) + (C) + (D)+(E)+(F)						