

HINDUSTAN PREFAB LIMITED						
Palayam, Trivandrum						
Name of Work : Construction for the Balance work of Super Specialty Panchakarma Hospital and Research Centre at Alappuzha						
Estimate of balance work based on DSR 2016						
Item No.	DSR No.	Description of Items	Unit	Quantity	Rate	Amount
A		CIVIL WORKS				
I		Schedule Items				
		EARTH WORK				
1	2.8	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
	2.8.1	All kinds of soil.	Cum	40.00	166.40	6656.00
2	2.25	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.	Cum	138.00	125.75	17353.50
		CONCRETE WORK				
3	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
a	4.1.3	1:2:4 (1 cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size).	Cum	4.00	5481.95	21927.80
b	4.1.8	1:4:8 (1 Cement : 4 coarse sand (zone-III) : 8 graded stone aggregate 40 mm nominal size)	Cum	145.00	4478.15	649331.75
		REINFORCED CEMENT CONCRETE				
4	5.1	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :				
a	5.1.2	1:1.5:3 (1 cement : 1.5 coarse sand (zone-III): 3 graded stone aggregate 20 mm nominal size).	Cum	19.00	6215.35	118091.65
5	5.2	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement :				

Item No.	DSR No.	Description of Items	Unit	Quantity	Rate	Amount
a	5.2.2	1:1.5:3 (1 cement : 1.5 coarse sand (zone-III): 3 graded stone aggregate 20 mm nominal size).	Cum	60.00	7145.80	428748.00
6	5.3	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size).	Cum	225.50	7390.80	1666625.40
		FORM WORK				
7	5.9	Centering and shuttering including strutting, propping etc. and removal of form for all heights :				
a	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete	Sqm	68.00	193.95	13188.60
b	5.9.3	Suspended floors, roofs, landings, balconies and access platform.	Sqm	635.00	422.30	268160.50
c	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers	Sqm	1060.00	342.90	363474.00
d	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts.	Sqm	660.00	467.85	308781.00
e	5.9.7	Stairs, (excluding landings) except spiral-staircases.	Sqm	75.00	419.35	31451.25
f	5.9.19	Weather shade, Chajjas, corbels etc., including edges.	Sqm	150.00	521.75	78262.50
		STEEL REINFORCEMENT				
8	5.22	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level				
a	5.22.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	1900.00	56.60	107540.00
9	5.22A	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.				
a	5.22A.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	29500.00	56.60	1669700.00
		MISCELLANEOUS				
10	5.27	Providing and filling in position bitumen mix filler of Proportion 80 kg. of hot bitumen, 1 kg. of cement and 0.25 cubic metre of coarse sand for depth per expansion joints.	Cum	0.10	16494.35	1649.44

Item No.	DSR No.	Description of Items	Unit	Quantity	Rate	Amount
11	5.29	Providing and fixing sheet covering over expansion joints with iron screws as per design				
a	5.29.2	Aluminium fluted strips 3.15 mm thick.				
i)	5.29.2.2	200 mm wide	Metre	20.00	469.40	9388.00
		WOOD & PVC WORK				
12	9.5	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows, including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws, excluding panelling which will be paid for separately, all complete as per direction of Engineer-				
a	9.5.1	Second class teak wood				
i	9.5.1.1	35 mm thick shutters	Sqm	174.00	2548.15	443378.10
13	9.7	Providing and fixing panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled or panelled and glazed shutters 25 mm to 40				
a	9.7.7	Float glass panes				
i)	9.7.7.1	4 mm thick glass pane	Sqm	190.00	1169.60	222224.00
14	9.62	Providing and fixing ISI marked oxidised M.S. sliding door bolts with nuts and screws etc. complete				
a	9.62.2	250x16 mm	Each	48.00	142.05	6818.40
15	9.74	Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc. complete				
a	9.74.2	200x10 mm	Each	48.00	251.50	12072.00
b	9.74.3	150x10 mm	Each	48.00	193.45	9285.60
16	9.76	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.	Each	48.00	556.45	26709.60
17	9.84	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with 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	Each	6.00	388.40	2330.40

Item No.	DSR No.	Description of Items	Unit	Quantity	Rate	Amount
18	9.119	Providing and fixing factory made P.V.C. door frame of size 50x47 mm with a wall thickness of 5 mm, made out of extruded 5mm rigid PVC foam sheet, mitred at corners and joined with 2 Nos of 150 mm long brackets of 15x15 mm M.S. square tube, the vertical door frame profiles to be reinforced with 19x19 mm M.S. square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame. The door frame to be fixed to the wall using M.S. screws of 65/100 mm size, complete as per manufacturer's specification and direction of Engineerin-Charge.	Metre	252.00	438.75	110565.00
19	9.120	Providing and fixing factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19 mm x 19 mm for styles and 15x15 mm for top & bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture. M.S. frame covered with 5 mm thick heat moulded PVC 'C' channel of size 30 mm thickness, 70 mm width out of which 50 mm shall be flat and 20 mm shall be tapered in 45 degree angle on both side forming styles and 5 mm thick, 95 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered in 45 degree on the inner side to form top and bottom rail and 115 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered on both sides to form lock rail. Top, bottom and lock rails shall be provided both side of the panel. 10 mm (5 mm x 2) thick, 20 mm wide cross PVC sheet be provided as gap insert for top rail & bottom rail, paneling of 5 mm thick both side PVC sheet to be fitted in the M.S. frame welded/ sealed to the styles & rails with 7 mm (5 mm+2 mm) thick x 15 mm wide PVC sheet beading on inner side, and joined together with solvent cement adhesive. An additional 5 mm thick PVC strip of 20 mm width is to be stuck on the interior side of the 'C' Channel using PVC solvent				
a	9.120.1	30 mm thick plain PVC door shutters	Sqm	73.00	2768.10	202071.30
		STEEL WORK				
20	10.2	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	Kg	11600.00	67.60	784160.00

Item No.	DSR No.	Description of Items	Unit	Quantity	Rate	Amount
21	10.6	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.				
a	10.6.1	80x1.25 mm M.S. laths with 1.25 mm thick top cover	Sqm	7.50	2316.10	17370.75
		FLOORING				
		TILE FLOORING				
22	11.20	Chequerred precast cement concrete tiles 22 mm thick in footpath & courtyard, jointed with neat cement slurry mixed with pigment to match the shade of tiles, including rubbing and cleaning etc. complete, on 20 mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand).				
a	11.20.4	Ordinary cement without any pigment.	Sqm	50.00	661.35	33067.50
		CERAMIC GLAZED TILES				
23	11.36	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.	Sqm	925.00	744.80	688940.00
24	11.37	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), jointing with grey cement slurry @ 3.3kg/sqm including pointing the joints with white cement and matching pigment etc., complete	Sqm	2250.00	688.35	1548787.50

Item No.	DSR No.	Description of Items	Unit	Quantity	Rate	Amount
25	11.38	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 all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick bed of cement mortar 1:4 (1 Cement : 4 Coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including pointing the joints with white cement and matching pigments etc., complete	Sqm	130.00	747.90	97227.00
		VITRIFIED FLOOR TILES				
26	11.41	Providing and laying vitrified floor 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 make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including grouting the joints with white cement and matching pigments				
a	11.41.2	Size of Tile 600x600 mm	Sqm	110.00	1119.40	123134.00
		ROOFING				
27	12.48	Providing & fixing on roof pressed clay tile (Mangalore tile) of 20 mm nominal thickness and of approved size and as per approved pattern on steel frame work complete (steel frame work to be paid separately).	Sqm	385.00	238.00	91630.00
28	12.49	Providing & laying on roof pressed clay tile ridge (Mangalore tile) of 20mm thickness and of approved pattern on steel frame work complete (steel frame work to be paid separately).	Sqm	15.00	52.45	786.75
29	12.50	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineerin-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape	Sqm	960.00	550.40	528384.00

Item No.	DSR No.	Description of Items	Unit	Quantity	Rate	Amount
30	12.51	Providing and fixing precoated galvanised steel sheet roofing accessories 0.50 mm (+ 0.05 %) total coated thickness, Zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/ self tapping screws complete :				
a	12.51.1	Ridge plain (500-600mm)	Rm	110.00	360.45	39649.50
		FINISHING				
		CEMENT PLASTER (IN COARSE SAND)				
31	13.4	12 mm cement plaster of mix :				
a	13.4.2	1:6 (1 cement : 6 coarse sand)	Sqm	4100.00	168.25	689825.00
		6 MM CEMENT PLASTER				
32	13.16	6 mm cement plaster of mix :				
a	13.16.1	1:3 (1 cement : 3 fine sand)	Sqm	600.00	143.80	86280.00
		INTERIOR FINISHING				
33	13.37	White washing with lime to give an even shade:				
a	13.37.1	New work (three or more coats)	Sqm	2000.00	17.25	34500.00
34	13.47	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required				
a	13.47.1	New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	Sqm	1400.00	96.80	135520.00
35	13.60	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even				
a	13.60.1	Two or more coats on new work	Sqm	3950.00	84.45	333577.50
36	13.61	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
a	13.61.1	Two or more coats on new work	Sqm	750.00	78.40	58800.00

Item No.	DSR No.	Description of Items	Unit	Quantity	Rate	Amount
37	13.76	Forming groove of uniform size from 12x12 mm and upto 25x15 mm in the top layer of washed stone grit plastered surface as per approved pattern, including providing and fixing aluminum channels of appropriate size and thickness (not less than 2 mm), nailed to the under layer with rust proof screws and nails and finishing the groove complete as per specifications and direction of the Engineer-in-charge.	Metre	300.00	71.60	21480.00
		REPAIRS TO BUILDING				
38	14.35	Providing and fixing bright finished brass hard drawn hooks and eyes :				
a	14.35.2	250 mm	Each	288.00	77.35	22276.80
b	14.35.5	100 mm	Each	576.00	50.05	28828.80
		ALUMINIUM WORK				
39	21.1	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, 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 fasteners to be provided separately)				
a	21.1.1	For fixed portion				
i)	21.1.1.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	Kg	865.00	384.50	332592.50
40	21.1.2	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				
a	21.1.2.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	Kg	426.00	444.90	189527.40

Item No.	DSR No.	Description of Items	Unit	Quantity	Rate	Amount
41	21.2	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of Engineer-in-				
a	21.2.2	Pre-laminated particle board with decorative lamination on both sides	Sqm	248.00	866.60	214916.80
42	21.3	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):				
a	21.3.2	With float glass panes of 5.50 mm thickness	Sqm	60.00	1003.95	60237.00
		STRUCTURAL GLAZING ALUMINIUM COMPOSITE PANEL				
43	25.3	Providing, assembling and supplying vision glass panels (IGUs) comprising of hermetically-sealed 6-12- 6 mm insulated glass (double glazed) vision panel units of size and shape as required and specified, comprising of an outer heat strengthened float glass 6mm thick, of approved colour and shade with reflective soft coating on surface # 2 of approved colour and shade, an inner Heat strengthened clear float glass 6mm thick, spacer tube 12mm wide, dessicants, including primary seal and secondary seal (structural silicone sealant) etc. all complete for the required performances, as per the Architectural drawings, as per the approved shop drawings, as specified and as directed by the Engineer-in-Charge. The IGUs shall be assembled in the factory/ workshop of the glass processor.“(Payment for fixing of IGU Panels in the curtain glazing is included in cost of item No.26.2)“For payment, only the actual area of glass on face # 1 of the glass panels (excluding the areas of the grooves and weather silicone sealant) provided and fixed in position, shall be measured in sqm.				

Item No.	DSR No.	Description of Items	Unit	Quantity	Rate	Amount
a	(i)	Coloured tinted float glass 6mm thick substrate with reflective soft coating on face # 2, + 12mm Airgap + 6mm Heat Strengthened clear Glass of approved make having properties as visible Light transmittance (VLT) of 25 to 35 %, Light reflection internal 10 to 15%, light reflection external 10 to 20 %, shading coefficient (0.25- 0.28) and U value of 3.0 to 3.3 W/m2 degree K etc. The properties of performance glass shall be decided by technical sanctioning authority as per the site requirement.	Sqm	80.00	3730.70	298456.00
		Sub Total				13255738.59
		Add Cost Index @ 54.90 %				7277400.48
		Total amount of schedule items				20533139.07
II		Non-Schedule Items				
44	1	Solid block masonry using pre cast blocks (factory made) of size 40x20x20 cm or nearest available size conforming to IS 2185 part 1 of 1979 for super structure upto floor two level thickness 20cm and above in CM 1:6 (1 cement : 6 coarse sand) etc complete	Cum	292.00	6622.00	1933624.00
45	2	Solid block masonry using pre cast blocks (factory made) of size 40x20x10 cm or nearest available size conforming to IS 2185 part 1 of 1979 for super structure upto floor two level for 10cm thick wall in CM 1:6 (1 cement : 6 coarse sand) including cost of scaffolding etc complete	Cum	9.80	9236.00	90512.80
46	3	Providing and fixing prestressed precasted RCC frames of doors, windows and ventilators with all cost of materials, labour and conveyance etc complete as directed by Engineer in charge.				
a	a	Window frame of size 1.50x1.50 (W)	Each	78.00	3500.00	273000.00
b	b	Window frame of size 1.00x1.50 (W1)	Each	10.00	2500.00	25000.00
c	c	Ventilator frame of size 0.60x0.45 (V)	Each	34.00	800.00	27200.00
47	4	Providing wood work in frames of door and fixed in position using good quality Pincoda wood	Cum	0.22	149339.00	32705.24
48	5	Providing and fixing glazed shutters for doors, windows and clerestory windows using 4mm thick float glass panes including ISI marked M.S pressed butt hinges bright finished of required size with necessary screws.				
a	a	Pincoda wood 30mm thick shutters	Sqm	16.00	4947.00	79152.00

Item No.	DSR No.	Description of Items	Unit	Quantity	Rate	Amount
49	6	Providing and fixing multi wood board or equivalent make panelling 18 mm thick, to frame, backing or studding with screws etc. complete (Frames, backing or studding to be paid seperately) as per the direction of site Engineer-in-charge				
a	a	Mukhappu	Sqm	120.00	1806.00	216720.00
50	7	Providing Hand rail with precast ornamental ferrocement finish as per the design and the direction of site Engineer-in-charge	RM	40.00	2801.00	112040.00
51	8	Providing PVC sheet 12mmthick for ceiling in anodized alumminium frame work using 40mm x 25mm x 1.2mm Tee section, sides of frame on wall with 25x25x1.2mm aluminium angle section fixed with iron screws on nylon sleeves etc the frame hanging in RCC slab or AC sheet roof with 4mm GI wire at suitable intervals and as per the instructions of dept engineer cutting and fixing the PVC sheet on frame with screws providing holes for fan hooks, platform scaffolding for required height wherever necessary including cost and conveyance of all materials and labour charges etc complete as per the direction of dept engineer . (brand as specified by EIC)	Sqm	425.00	1200.00	510000.00
		Total Non-Schedule Items				3299954.04
		Total Amount for Civil works (A)				23833093.11
B		SANITARY & PLUMBING WORKS				
I		Shedule Items				
		SANITARY INSTALLATIONS				
52	17.1	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 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				
a	17.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	Each	4.00	3494.20	13976.80

Item No.	DSR No.	Description of Items	Unit	Quantity	Rate	Amount
53	17.3	Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10 litre low level white vitreous china flushing cistern & C.P. flush bend with fittings & C.I. brackets, 40 mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever				
a	17.3.2	W.C. pan with ISI marked black solid plastic seat and lid	Each	28.00	4570.50	127974.00
54	17.5	Providing and fixing white vitreous china flat back half stall urinal of size 580x380x350 mm with white PVC automatic flushing cistern, with fittings, standard size C.P. brass flush pipe, spreaders with unions and clamps (all in C.P. brass) with waste fitting as per IS : 2556, C.I. trap with outlet grating and other couplings in C.P. brass, including painting of fittings and cutting and making good the walls and floors wherever required :				
a	17.5.1	Single half stall urinal with 5 litre P.V.C. automatic flushing cistern	Each	5.00	6187.40	30937.00
55	17.7	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:				
a	17.7.4	White Vitreous China Flat back wash basin size 550x 400 mm with single 15 mm C.P. brass pillar tap	Each	30.00	1817.35	54520.50
56	17.10	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 :				
a	17.10.1	Kitchen sink with drain board				
i	17.10.1.1	510x1040 mm bowl depth 250 mm	Each	2.00	4120.80	8241.60
b	17.10.2	Kitchen sink without drain board				
i	17.10.2.1	610x510 mm bowl depth 200 mm	Each	2.00	2476.60	4953.20
57	17.32	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 :				
a	17.32.2	Rectangular shape 453 x 357mm	Each	30.00	752.80	22584.00

Item No.	DSR No.	Description of Items	Unit	Quantity	Rate	Amount
58	17.69	Providing and fixing PTMT Waste Coupling for wash basin and sink, of approved quality and colour.				
a	17.69.2	Waste coupling 38 mm dia of 83 mm length and 77mm breadth, weighing not less than 60 gms	Each	34.00	98.80	3359.20
59	17.70	Providing and fixing PTMT Bottle Trap for Wash basin and sink.				
a	17.70.2	Bottle trap 38 mm 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 263 gms	Each	34.00	305.55	10388.70
60	17.72	Providing and fixing PTMT towel ring trapezoidal shape 215 mm long, 200 mm wide with minimum distances of 37 mm from wall face with concealed fittings arrangement of approved quality and colour, weighing not less than 88 gms	Each	18.00	197.55	3555.90
61	17.73	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour.				
a	17.73.1	450 mm long towel rail with total length of 495 mm, 78 mm wide and effective height of 88 mm, weighing not less than 170 gms	Each	31.00	390.20	12096.20
		WATER SUPPLY				
62	18.9	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge.				
		External work				
a	18.9.3	25 mm nominal outer dia Pipes	Metre	270.00	191.65	51745.50
b	18.9.4	32 mm nominal outer dia Pipes	Metre	85.00	250.55	21296.75
c	18.9.5	40 mm nominal outer dia Pipes	Metre	25.00	321.15	8028.75
d	18.9.6	50 mm nominal outer dia Pipes	Metre	21.00	484.25	10167.80
e	18.9.8	75 mm nominal inner dia Pipes	Metre	250.00	1201.05	300262.50
63	18.17	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :				
a	18.17.1	25 mm nominal bore	Each	3.00	428.20	1284.60
b	18.17.2	32 mm nominal bore.	Each	2.00	500.75	1001.50

Item No.	DSR No.	Description of Items	Unit	Quantity	Rate	Amount
c	18.17.3	40 mm nominal bore	Each	4.00	584.70	2338.80
d	18.17.4	50 mm nominal bore	Each	1.00	749.90	749.90
e	18.17.6	80 mm nominal bore	Each	1.00	1919.50	1919.50
64	18.22	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet :				
a	18.22.2	150 mm diameter	Each	5.00	85.90	429.50
65	18.48	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.				
a	18.48A	Circular tank	Per litre	6000.00	7.25	43500.00
66	18.51	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.				
a	18.51.1	15 mm nominal bore	Each	34.00	492.55	16746.70
67	18.52	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.				
a	18.52.1	15 mm nominal bore	Each	30.00	545.95	16378.50
68	18.53	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931				
a	18.53.1	15mm nominal bore	Each	80.00	475.70	38056.00
69	18.58	Providing and fixing PTMT grating of approved quality and colour.				
a	18.58.2	Rectangular type with openable circular lid				
i	18.58.2.1	150 mm nominal size square 100 mm diameter of the inner hinged round grating	Each	52.00	150.05	7802.60
70	18.64	Providing and fixing PTMT swivelling shower, 15 mm nominal bore, weighing not less than 40 gms	Each	5.00	100.70	503.50
71	18.65	Providing and fixing PTMT soap Dish Holder having length of 138mm, breadth 102mm, height of 75mm with concealed fitting arrangements, weighing not less than 106 gms.	Each	40.00	112.30	4492.00
		DRAINAGE				

Item No.	DSR No.	Description of Items	Unit	Quantity	Rate	Amount
72	19.7	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 : 2 coarse 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				
a	19.7.1	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) :				
i	19.7.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	16.00	8634.10	138145.60
b	19.7.2	Inside size 120x90 cm and 90 cm deep including C.I. cover with frame (medium duty) 500 mm internal diameter, total weight of cover and frame to be not less than 116 kg (weight of cover 58 kg and weight of frame 58 kg) :				
i	19.7.2.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	16.00	18422.40	294758.40
73	19.19	Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and approved quality				
a	19.19.2	M D - 10				
i	19.19.2.1	Square shape 450 mm internal dimension	Each	16.00	1079.35	17269.60
74	19.20	Supplying and fixing C.I. cover 300x300 mm without frame for gully trap (standard pattern) the weight of cover to be not less than 4.5 kg	Each	10.00	279.60	2796.00
75	19.27	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 :				
a	19.27.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	10.00	4043.10	40431.00
76	19.28	Constructing brick masonry road gully chamber 45x45x77.5 cm with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) with precast R.C.C. vertical grating complete as per standard design :				

Item No.	DSR No.	Description of Items	Unit	Quantity	Rate	Amount
a	19.28.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	16.00	4384.50	70152.00
77	19.32	Making soak pit 2.5 m diameter 3.0 metre deep with 45 x 45 cm dry brick honey comb shaft with bricks and S.W. drain pipe 100 mm diameter, 1.8 m long complete as per standard design.				
a	19.32.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	2.00	20681.55	41363.10
		Sub total				1424207.20
		Add Cost Index @ 54.90 %				781889.75
		Total Amount for Schedule Items				2206096.95
II		Non -Sheduled Items				
78	1	Providing, Fixing, Testing and commissioning at site ablation Health Spray Faucet, C.P.Flexible Hose 750mm long nozzle tube, tube holder etc.complete in all respects	Each	26.00	1232.00	32032.00
79	2	Supply, Installation, testing & commissioning of Supreme PVC pasted pipe 6kg using Solvent Cement ISI Marked] with Heavy duty ISI Marked PVC fittings, Tees, Elbows, Bends, 'Y's etc. Adapters, Air vents, Clamping with GI UClamps as required for firmly install				
a	a	50mm OD 6KG/Sq.cm internal Waste Piping	Metre	67.00	353.00	23651.00
b	b	75mm OD 6KG/Sq.cm internal Waste Piping	Metre	88.00	605.00	53240.00
c	c	110mm OD 6KG/Sq.cm internal Soil Piping	Metre	75.00	728.00	54600.00
d	d	75mm OD 6KG/Sq.cm Rain Water Piping	Metre	25.00	605.00	15125.00
e	e	110mm OD 6KG/Sq.cm Rain Water Piping	Metre	150.00	728.00	109200.00
f	f	110mm OD 6KG/Sq.cm External Soil & Waste Piping	Metre	120.00	728.00	87360.00
g	g	160mm OD 6KG/Sq.cm External Soil & Waste Piping	Metre	345.00	941.00	324645.00
h	h	63mm OD 6KG/Sq.cm internal Vent Piping	Metre	25.00	510.00	12750.00
80	3	Multi Inlet 110MM X 63MM X 50MM Diameter 150MM Depth.	Each	48.00	672.00	32256.00
		Total Amount for Non schedule Items				744859.00
		Total Amount for Sanitary & Plumbing works (B)				2950955.95
C		ELECTRICAL WORKS				
I		Schedule Items				

Item No.	DSR No.	Description of Items	Unit	Quantity	Rate	Amount
		WIRING				
81	1.10	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.				
a	1.10.3	Group C	Point	458.00	757.00	346706.00
82	1.11	Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, 2 way 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	Point	10.00	809.00	8090.00
83	1.12	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.	Metre	200.00	168.00	33600.00
84	1.14	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.				
a	1.14.1	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	Metre	1100.00	112.00	123200.00
b	1.14.2	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	Metre	2200.00	137.00	301400.00
c	1.14.9	4 X 6 sq. mm + 2 X 6 sq. mm earth wire	Metre	100.00	395.00	39500.00
85	1.18	Supplying and drawing following pair 0.5 mm dia FRLS PVC insulated annealed copper conductor, unarmored telephone cable in the existing surface/ recessed steel/ PVC conduit as required.				
a	1.18.1	1 Pair	Metre	250.00	15.00	3750.00
86	1.21	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required				
a	1.21.1	20 mm	Metre	2000.00	57.00	114000.00
b	1.21.2	25mm	Metre	1300.00	69.00	89700.00
c	1.21.3	32mm	Metre	100.00	89.00	8900.00

Item No.	DSR No.	Description of Items	Unit	Quantity	Rate	Amount
87	1.24	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.				
a	1.24.1	5/6 A switch	Each	30.00	84.00	2520.00
b	1.24.3	15/16 A switch	Each	10.00	114.00	1140.00
c	1.24.4	3 pin 5/6 A socket outlet	Each	30.00	81.00	2430.00
d	1.24.5	6 pin 15/16 A socket outlet	Each	10.00	153.00	1530.00
e	1.24.6	Telephone socket outlet	Each	20.00	96.00	1920.00
f	1.24.7	TV antenna socket outlet	Each	3.00	97.00	291.00
88	1.25	Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.	Each	104.00	288.00	29952.00
89	1.26	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	Each	200.00	24.00	4800.00
90	1.27	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required.				
a	1.27.1	1 or 2 module (75mmx75mm)	Each	23.00	175.00	4025.00
b	1.27.6	12 module (200mmx150mm)	Each	10.00	344.00	3440.00
91	1.31	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 A modular socket outlet and 5/6 A modular switch, connections etc. as required.	Each	135.00	313.00	42255.00
92	1.32	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 A & 15/16 A modular socket outlet and 15/16 A modular switch, connections etc. as required.	Each	40.00	406.00	16240.00
93	1.33	Supplying and fixing 3 pin, 5 A ceiling rose on the existing junction box/ wooden block including connections etc. as required.	Each	458.00	46.00	21068.00

Item No.	DSR No.	Description of Items	Unit	Quantity	Rate	Amount
95	1.36	Supplying and fixing stiff pendent with 300 mm long, 20 mm dia X 1.6 mm thick steel conduit, aluminium cast back plate and brass holder complete, including wiring the down rod with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and painting etc. as required.	Each	30.00	169.00	5070.00
94	1.38	Supplying and fixing call bell/ buzzer suitable for single phase, 230 V, complete as required.	Each	5.00	61.00	305.00
96	1.41	Installation, testing and commissioning of pre-wired, fluorescent fitting / compact fluorescent fitting of all types, complete with all accessories and tube/lamp etc. directly on ceiling/ wall, including connections with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required.	Each	260.00	100.00	26000.00
97	1.44	Installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable etc. as required.	Each	104.00	105.00	10920.00
98	1.50	Installation of exhaust fan in the existing opening, including making good the damage, connection, testing, commissioning etc. as required.				
a	1.50.1	Upto 450 mm sweep	Each	34.00	224.00	7616.00
		MCCB, MCB & DB'S				
99	2.3	Supplying and fixing following 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)				
a	2.3.4	16 way, Double door	Each	3.00	1364.00	4092.00
100	2.4	Supplying and fixing following 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)				
a	2.4.2	6 way (4 + 18), Double door	Each	10.00	2659.00	26590.00

Item No.	DSR No.	Description of Items	Unit	Quantity	Rate	Amount
101	2.5	Supplying and fixing of following ways surface/recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A, tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required. (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.)				
a	2.5.2	8 way (4 + 24), Double door	Each	6.00	5664.00	33984.00
102	2.10	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	2.10.1	Single pole	Each	252.00	173.00	43596.00
b	2.10.2	Single pole and neutral	Each	4.00	445.00	1780.00
c	2.10.4	Triple pole	Each	12.00	700.00	8400.00
d	2.10.5	Triple pole and neutral	Each	14.00	891.00	12474.00
103	2.11	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	Each	10.00	7.00	70.00
104	2.13	Supplying and fixing following rating, four pole, 415 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
a	2.13.1	40 A	Each	15.00	667.00	10005.00
b	2.13.2	63 A	Each	15.00	678.00	10170.00
105	2.14	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
a	2.14.1	25 A	Each	3.00	1650.00	4950.00

Item No.	DSR No.	Description of Items	Unit	Quantity	Rate	Amount
106	2.15	Supplying and fixing following rating, four pole, (three phase and neutral), 415 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as				
a	2.15.2	40 A	Each	15.00	2131.00	31965.00
b	2.15.3	63 A	Each	15.00	2302.00	34530.00
107	2.18	Supplying and fixing 20 A, 240 V, SPN Industrial type socket outlet, with 2 pole and earth, metal enclosed plug top alongwith 20 A, "C" curve, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket outlet and complete with connections, testing and commissioning etc. as required.	Each	10.00	980.00	9800.00
		EARTHING				
108	5.2	Earthing with G.I. earth pipe 4.5 meter long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/ coke and salt as required.	Each	2.00	3672.00	7344.00
109	5.6	Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 meter long etc. with charcoal/ coke and salt as required	Set	2.00	8289.00	16578.00
110	5.8	Supplying and laying 25 mm X 5 mm copper strip at 0.50 meter below ground as strip earth electrode, including connection/ terminating with nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of brass nut bolt & spring washer spaced at 50 mm)	Metre	50.00	595.00	29750.00
		Sub total				1536446.00
		Add Cost Index @ 54.90 %				843508.85
		Total Amount for Schedule Items				2379954.85

Item No.	DSR No.	Description of Items	Unit	Quantity	Rate	Amount
II		Non Schedule Item				
111	1	Supply of 1 x 40 watt surface mounted flourescent type lumibnare complete with copper ballast, lamp holder, starter, starter holder and condenser duly wired up to use on 240volt, 50Hz, AC supply including tubes. with acrylic diffuser as per direction of engineer in charge.	Each	260.00	1100.00	286000.00
112	2	Supply of 2 x 40 watt surface mounted flourescent type lumibnare complete with copper ballast, lamp holder, starter, starter holder and condenser duly wired up to use on 240volt, 50Hz, AC supply including tubes. with acrylic diffuser as per direction of engineer in charge.	Each	20.00	2650.00	53000.00
113	3	Supply & fixing 2 X 18 W CFL surface mounted low glare mirror optics down lighter as per direction of engineer in charge..	Each	6.00	2700.00	16200.00
114	4	Supply of 1200mm sweep electric ceiling fan capacitor type with double ball bearing with 300mm down rod, canopies, shackles, blades suitable for operation on 240volt, 50Hz, single phase AC supply conforming to IS - 374 / 1979 class I (without regulator) high speed as per direction of engineer in charge.	Each	104.00	2400.00	249600.00
115	5	Supplying and fixing Metro BD bulk head fittings with front clear glass and 11w CFL lamp to wall / ceiling including giving connections with required length of 16/0.20mm PVC 3 core round copper conductor flexible wire conforming to revele IS .as per direction of engineer in charge.	Each	30.00	1000.00	30000.00
116	6	Supply of following size heavy duty electric exhust fan, capacitor type with double ball bearing, blades suitable for operation on 240V, 50Hz, 9000RPM, single phase AC supply as per direction of engineer in charge.				
a	a	305mm	Each	34.00	4600.00	156400.00
117	7	Supplying Compact fluorescent lamp bulbs (CFL) 20watts as per direction of engineer in charge.	Each	34.00	320.00	10880.00

Item No.	DSR No.	Description of Items	Unit	Quantity	Rate	Amount
118	8	Supply of 1XSON/SON-T 250W lamp with streetlight luminaire with copper ballast, electronic ignitor, power factor improvement capacitor etc. single piece deep drawn aluminium housing, POT reflector and UV stablized acrylic cover ,including all accessories etc as per direction of engineer in	Each	4.00	11000.00	44000.00
119	9	Providing,installation, testing and commissioning of provided MV lamp/SV lamp fitting with all types with bulbs on 50mm nearest suitable size B class GI pipe 2m long cut and welded to shape bent to shape fixed on wall using flat iron clamps fabricated from 25*3mm MS flat, giving connection with required length of 24/0.20mm PVC insulated and PVC sheathed 650/1100V grade 3 core round copper conductor rounded flex wire conforming ot releveant ISS painting the GI pipe and clamps making good the surface etc. as required.(excluding cost of 250W sodium vapour lamp)	Each	4.00	3500.00	14000.00
120	10	S/F Vertical type pre wired TP MCCB DB :Supplying , installation, testing and commissioning of surface/recess,mounting ,vertical type,415 volts prewired TPN MCB distribution board of sheet steel,dust protected duly phosphatized and powder painted,inclusive of 200 amps tinned copper busbar,common neutral link,earth bar,din bar for mounting MCB's detachable gland/knock out plate,and with 80 amps,25 KA MCCB as incomer interconnection between incomer MCCB and busbars of following ways (but without MCB's) as				
	a	4 Way with 80 amps MCCB as incomer	Each	3.00	22000.00	66000.00
121	11	S/F TP MCB :Supplying and fixing following rating three pole,415 volts MCB in the existing MCB DB complete with connections testing and commisioning etc as required.				
a	a	40 amps	Each	15.00	1850.00	27750.00
b	b	63 amps	Each	15.00	2000.00	30000.00

Item No.	DSR No.	Description of Items	Unit	Quantity	Rate	Amount
122	12	Supply and fixing of 20 pair terminal connector(IDF) for DOT,in a suitable GI mounting box, including termination of conduits, two pair telephone wires, incoming Multicore Telephone cable etc.	Each	1.00	3000.00	3000.00
123	13	Supply & laying of telephone cable using one run of 20 pair Armored telephone cable from Terminal Connector upto the Main Telephone Terminal ConnectorLocated elsewhere along with 1run of 16SWG bare copper conductor for earthing	Metre	30.00	300.00	9000.00
124	14	Supply & laying of RG 11 co axial TV cable through existing PVC pipe.	Metre	40.00	100.00	4000.00
125	15	Supply, Installation and Testing of RJ 45 CAT 6 Coloured Shuttered Information Outlet with Single Face Plate, MS Mounting Box including Termination of the Incoming CAT6 Cable as per	Each	10.00	500.00	5000.00
126	16	Supply and laying CAT6 4Pair UTP Ethernet Cable using ISI Marked Concealed PVC Conduits maintaining proper clearances for the entire route as per specifications. Supply and laying of conduit are included in this scope	Metre	150.00	100.00	15000.00
127	17	Supply, Laying, testing and commissioning of the following PVC insulated armoured aluminium 1.1 KV L.T cables (AYWY/AYFY) and 11 KV XLPE cables through excavator trenches, builtup cable trenches, cable trays, hum pipes, including supply and fixing of clamps, nuts & bolts, screws identification tags, route markers etc required for clamping intervals as necessary				
a	a	3.5 C x 185 Sq.mm	Metre	100.00	2000.00	200000.00
b	b	3.5 C x 95 Sq.mm	Metre	30.00	1250.00	37500.00
c	c	3.5 C x 70 Sq.mm	Metre	100.00	1000.00	100000.00
d	d	3.0 C x 10 Sq.mm	Metre	20.00	335.00	6700.00
e	e	3.0 C x 6 Sq.mm	Metre	20.00	280.00	5600.00
f	f	3.0 C x 4 Sq.mm	Metre	25.00	225.00	5625.00
g	g	4.0 C x 25 Sq.mm	Metre	25.00	550.00	13750.00
h	h	4.0 C x 16 Sq.mm	Metre	350.00	430.00	150500.00
i	i	4.0 C x 10 Sq.mm	Metre	200.00	350.00	70000.00

Item No.	DSR No.	Description of Items	Unit	Quantity	Rate	Amount
128	18	Supply and termination of the following HT XLPE/LT PVC Insulated Armoured L.T cables (AYWY/AYFY) using single compression cadmium plated brass cable glands, copper crimped type cable lugs, cable identification tags and including gland earthing using copper conductor of sdequate size, AL-CU strip for termination of cables etc				
a	a	3.5 C x 185 SQ.MM	Each	4.00	1500.00	6000.00
b	b	3.5 C x 95 Sq.mm	Each	4.00	750.00	3000.00
c	c	3.5 C x 70SQ.MM	Each	8.00	700.00	5600.00
d	d	3.0 C x 10 SQ.MM	Each	2.00	250.00	500.00
e	e	3.0 C x 6 SQ.MM	Each	2.00	210.00	420.00
f	f	3.0 C x 4 SQ.MM	Each	2.00	200.00	400.00
g	g	4.0 C x 25 SQ.MM	Each	4.00	460.00	1840.00
h	h	4.0 C x 16 SQ.MM	Each	20.00	340.00	6800.00
i	i	4.0 C x 10 SQ.MM	Each	20.00	310.00	6200.00
129	19	Design, fabrication, supply, erection, testing and commssioning of following cubicle type, fully compartmentalised LT switchboards dust tight and vermin proof, fabricated out of 14/16 SWG CRCA sheet, chemically treated and painted with 2 coats of primer and two coats of stoving enamel paint of approved shade. The switch boards should have a set of suitably rated TPN aluminium busbars with the specified current and fault level, insulated with heat shrinkable. colour coded PVC sleeve and supported using DMC/SMC pillar or finger type busher supports. The design should be as per the standard of the state Electrical inspectorate. (All MCCBs should be with Rotary handle) MSB Fabricated out of 16SWG CRCA sheet.Top cable entry for outgoing feeders and incomers floor mounting type.1) Busbars:200A TPN Al. Busbar - 1no.Earth bus - 25.4 x 3.175mm CU.2) Incomer 1 :200A ,				

Item No.	DSR No.	Description of Items	Unit	Quantity	Rate	Amount
		35kA Ics thermal adj. type 4P MCCB set at 160A - 1no, 3) Meters & Indications:Red, Yellow, Blue LED Type Indication Lamps with 3nos 2A Control fuses - 1set, 1no. Multi function meter(V,A,F,KW) and 3nos metering CTs Class 1.0 15VA,125/5A,3 nos 2A Cut out fuses-1set, 4) Incomer 2 :200A 4P Isolator -1no ,5) Meters & Indications:Red, Yellow, Blue LED Type Indication Lamps with 3nos 2A Control fuses - 1set, 1no. Multi function meter(V,A,F,KW) and 3nos metering CTs Class 1.0 15VA,125/5A,3 nos 2A Cut out fuses-1set, 6) Inter lock:Castel key Inter lock Between Incommer 1 And 2, 7) Outgoings:125A 25kA Ics thermal adj. type TPN MCCB set at 100A - 2nos,80A 25kA Ics thermal adj. type TPN MCCB set at 63A - 6no, 63A 25kA Ics thermal adj. type TPN MCCB set at 50A -	Each	1.00	236500.00	236500.00
130	20	UTSB_1Fabricated out of 16SWG CRCA sheet. Top cable entry for outgoing feeders and incomers floor mounting type.1) Busbars:125A TPN Al. Busbar - 1no.Earth bus - 25.4 x 3.175mm CU.2) Incomer:125 A TPN SFU -1no, 3) Meters & Indications:Red, Yellow, Blue LED Type Indication Lamps with 3nos 2A Control fuses - 1set, 4) Outgoings:80A 25kA Ics thermal adj. type TPN MCCB set at 63A -3nos, 32A 16kA Ics thermal adj. type TPN MCCB set at 25A - 4nos	Each	1.00	200000.00	200000.00
131	21	Fabrication,supply & Installation of 3nos 200A cut out fuses, 3nos 160/5A class1.0 15VA CT's & control fuse and provision for KSEB KWH meter and 200A 4P MCCB 35kA Ics set at 160A, shunt trip and 3nos 160/5A class1.0 15VA CT's & control fuse and earth leakage relay and provision for terminating 3.5x185.0 sq. mm cable for incoming and out going side.	Each	1.00	110000.00	110000.00

Item No.	DSR No.	Description of Items	Unit	Quantity	Rate	Amount
132	22	MOTOR STARTERS:Wall mounting type dust tight and verminproof, fabricated out of 16 SWG CRCA sheet, treated and painted with 2 coats of primer and two coats of paint and shall include the following with 32A TPN isolator and illuminated LED type ON OFF push buttons, Contactors, Overload Relays,Power terminals, Control Terminals Power and Control Wiring etc. with the following				
a	a	DOL STARTER	Each	3.00	12000.00	36000.00
133	23	Supply of all materials and providing pipe earth station with 2500mm long, 38mm Diameter G.IPipe, earthing strips, clamps, funnel, terminal Electrodes etc., excavation in all classes of soil, fillingwith alternate layers of charcol and salt and back filling ,construction of Earthpit Inspection Chamberand Heavy duty C.I. Chequered plate for EarthpitInspection Chamber cover. The Earthing Stationshould conform to IS 3043/1987.	Each	7.00	8500.00	59500.00
a	a	Supply & Installation of CU strip type lightning conductors 25x3mm size with porcelain insulators at every 0.5mtrs..	Meter	600.00	1000.00	600000.00
b	b	Supply & Installation of CU strip type lightning conductors 32x6mm size with porcelain insulators at every 0.5mtrs .	Meter	40.00	73.00	2920.00
c	c	Supply and installation of Test Joint for Lighting downconductors at 2mtrs from Ground level	Each	7.00	112.00	784.00
134	24	Cable Trays and cable supports fabricated out ofM.S.Angles (ISA) and M.S. flats with sufficient widthand Spacing between successive cross members and supported at adequate spacing. The cable trays and supports shall be painted with 2coats of Zinc chromate primer and 2coats of enamel paint. The design of the cable trays and details shall be got approved by engineer in charge/ client.	Kg	700.00	135.00	94500.00

Item No.	DSR No.	Description of Items	Unit	Quantity	Rate	Amount
a	a	Supply,fabrication and installation of cable trenchcovers using 6mm thick MS Chequered plates for covering Cable trenches in switchboardroom.	Sqm	1.00	7000.00	7000.00
135	25	Supply and Installation of 2kg Dry Chemical Powder type (DCP) fire extinguishers having ISI mark alongwith mounting supports etc.	Each	4.00	3150.00	12600.00
136	26	Supply of Electrical Grade Rubber Mat suitable for440Volts Switchboards. (6' x 3' x 1/4").	Each	2.00	2250.00	4500.00
137	27	Supply and installation of 3nos of fire buckets alongwith stand painted with enamel paint of red colour.	Each	2.00	2300.00	4600.00
138	28	Supply and installation of metal L.T. danger signboards.	Each	2.00	180.00	360.00
139	29	Preparation of neccesary forms, documents etc and procuring approval from KSEB, all expences exept statutory charges shall be met by the contractor.	LS	1.00	35000.00	35000.00
		Total Amount for Non schedule Items				3044529.00
		Total Amount for Electrical works (C)				5424483.85