

BILL OF QUANTITY

NAME OF WORK :- BILL OF QUANTITY FOR THE PROPOSED MULTISTORY BUILDING CUM COMMERCIAL COMPLEX AT

Q AMOUNT: ₹ 7,99,52,787.00

NEST MONEY : ₹ 15,99,100.00

ME :

Sl. No.	BSR-2022	DESCRIPTION	UNIT	QTY.	RATE (in Rs.)	Amount (in Rs.)
	2.0	<u>EARTH WORKS</u>				
1	2.6	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-charge.				
	2.6.1	All kinds of soils	Cum.	3208.24	314.90	1010275.53
2	2.27	Extra for every additional lift of 1.5 m or part thereof in :				
	2.27.1	All kinds of soils	Cum	1020.80	49.40	50427.74
3	2.26	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth: consolidating each deposited layer by ramming and watering lead	Cum.	290.77	123.90	36026.40
4	2.28	Supplying and Filling in plinth with local sand and under floors including, watering, ramming consolidating and dressing complete.	Cum.	370.35	287.30	106402.72
	4.0	<u>CONCRETE WORKS</u>				
5	4.1	Providing and laying in position cement concrete of specified grade exluding the cost of centring and shuttering-all work upto plinth level.				
	4.1.4	1:2:4 (1 Cement: 2 coarse sand : 4 graded stone aggregate 40 mm nominal size)	Cum.	145.83	3998.10	583039.72
6	4.17	Making plinth protection 50 mm thick of cement concrete 1:3:6 (1 cement :3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75 mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including finishing the top smooth.	Sqm	161.25	436.60	70402.27
	5.0	<u>REINFORCED CEMENT CONCRETE WORK</u>				
7	5.9	Centring and shuttering including strutting,propping etc. and removal of form for.				
a	5.9.1	Foundations, footings, bases of columns etc. for mass concrete.	Sqm	356.12	211.60	75354.54
b	5.9.2	Walls (any thickness) including attached pilasters. Butteresses, plinth and string courses etc.	Sqm	910.45	375.10	341510.49
c	5.9.3	Suspended floors, roots, landings, balcnies and access platform.	Sqm	3618.50	437.50	1583095.23
d	5.9.4	Shelves (Cost in situ)	Sqm	9.54	437.50	4175.33
e	5.9.5	Lintels, beams, plinth bams, griders, bressumers and contilevers.	Sqm	1794.18	404.70	726103.03
f	5.9.6	Columns,Pillars, Piers, Abutments, Posts and Struts	Sqm	1090.59	494.40	539187.45
g	5.9.7	Stairs,(excluding landings) except spiral-staircaces.	Sqm	113.10	439.90	49754.14

No.	BSR-2022	DESCRIPTION	UNIT	QTY.	RATE (in Rs.)	Amount (in Rs.)
h	5.9.15	Small lintels not exceeding 1.5 m clear span, mouldings as in cornices, window sills, string, courses, bands, copings, bed plates, anchor blocks and the like.	Sqm	3.86	224.20	865.02
i	5.9.16	Edges of slabs and breaks in floors and walls				
j	5.9.16.1	Under 20 cm wide	metre	488.64	130.20	63620.93
8	5.22	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth & above plinth level.				
a	5.22.7A	Thermo-Mechanically Treated bars TMTC-500-8mm dia	kg	32633.50	94.50	3083866.18
b	5.22.7B	Thermo-Mechanically Treated bars TMTC-500-10mm dia	kg	32633.50	92.60	3021862.52
c	5.22.7C	Thermo-Mechanically Treated bars TMTC-500-12mm dia	kg	32633.50	90.80	2963122.22
d	5.22.7D	Thermo-Mechanically Treated bars TMT-500-16mm dia	kg	43511.34	91.70	3989989.83
e	5.22.7E	Thermo-Mechanically Treated bars TMT-500-20mm dia	kg	43511.34	91.70	3989989.83
f	5.22.7F	Thermo-Mechanically Treated bars TMT-500-25mm dia	kg	21755.67	91.70	1994994.91
g	5.22.7H	Thermo-Mechanically Treated bars TMT-500-32mm dia	kg	10877.83	91.70	997497.46
9	5.33	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and including retard setting of concrete, improve workability without impairing strength and admixtures in recommended proportions as per IS: 9103 to accelerate, reinforcement, durability as per direction of Engineer-in-charge. Note:- Cement content considered in this item is @ 330 kg/ cum. Excess or less cement used as per design mix is payable or recoverable separately.				
	5.33.1	All works upto plinth level. Concrete of M-25 grade with minimum cement content of 330 kg/cum	Cum	626.27	5063.40	3171060.85
10	5.33.2.1	All works above plinth level upto floor V level. Concrete of M-25 grade with minimum cement content of 330 kg/cum	Cum	970.26	5863.20	5688814.30
	6.0	BRICK WORK				
11	6.1.14	Brick work with bricks of class designation 100A in foundations and plinth in : Extra for Brick work in superstructure above plinth level upto floor V cum				
	6.1.14A+ 6.3A	Cement mortar 1:6 (1 cement: 6 coarse sand)	Cum	359.70	5662.10	2036677.95

No.	BSR-2022	DESCRIPTION	UNIT	QTY.	RATE (in Rs.)	Amount (in Rs.)
12	6.18A	Half brick masonry with bricks of class designation 100A in foundations and plinth in : Extra for half Brick masonry in superstructure above pinth level upto floor V level.				
	6.18.4A+ 6.19A	Cement mortar 1:4 (1 cement: 4 coarse send)	sqm	936.97	689.00	645571.64
13	6.21A	Extra for providing and placing in position 2 Nos, 6 mm dia , MS bars at every third course of half brick masonry (with F.P.S bricks)	Sqm	936.97	113.60	106439.68
	8.0	<u>MARBLE WORK</u>				
14	8.2	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations, of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4coarse 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.				
	8.2.2	Granite of any colour and shade				
	8.2.2.1	Area of slab upto 0.50 sqm	Sqm	9.54	4242.90	40492.54
15	8.3	Providing edge moulding to 18 mm thick marble stone counters, vanities etc., including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.				
	8.3.2	Granite work	Meter	15.91	260.10	4137.15
16	8.5	Extra for providing opening of required size & shape for wash basins/kitchen sink in kitchen platform. Vanity counters and similar location in marble/granite/stone work including necessary holes for pillar taps etc. including rubbing, moulding and polishing of cut edges etc. complete.	Each	20.00	428.20	8564.00
17	8.10	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 finished smooth. aggregate 6 mm nominal size) as per direction of Engineer-in-Charge				
	8.10.2	Granite Stone of approved shade	Sqm	11.88	3542.90	42089.65

o.	BSR-2022	DESCRIPTION	UNIT	QTY.	RATE (in Rs.)	Amount (in Rs.)
18	8.12	Providing and laying flamed finish Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20mm(average) thick base of cement mortar 1:4(1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing , curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge :				
	8.12.A	Flamed finish granite stone slab Jet Black, Cherry Red, Elite Brown, Cat Eye or equivalent.	Sqm	268.96	2147.70	577651.33
	9.0	<u>WOOD & PVC WORK</u>				
19	9.1	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).				
	9.1.1	Second class teak wood	cum	0.22	1,20,526.60	26847.30
		<u>Shutter</u>				
20	9.20	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.				
	9.20.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	sqm	11.09	2,845.60	31552.01
21	9.53	Providing 40x5 mm flat iron hold fast 40 cm long including fixing to frame with 10 mm diameter bolts,nuts and wooden plugs and embeddings in cement concrete block 30x10x15 cm 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	each	60	130.80	7848.00
22	9.70	Providing and fixing IS : 12817 marked stainless steel butt hinges with stainless steel screws etc. complete :				
	9.70.1	125x64x1.90 mm	each	12.00	85.00	1020.00
23	9.97	Providing and fixing aluminium tower bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete :				
	9.97.1	300x10 mm	EACH	4	111.40	445.60
24	9.88	Providing and fixing chromium plated 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	4	733.10	2932.40

Sl. No.	BSR-2022	DESCRIPTION	UNIT	QTY.	RATE (in Rs.)	Amount (in Rs.)
25	9.100	Providing and fixing aluminium handles of approved make anodized (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete.				
	9.100.1	125 mm	EACH	4	57.10	228.40
26	9.101	Providing and fixing aluminium hanging floor door stopper ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade with necessary screws etc. complete.				
	9.101.2	Twin rubber stopper	EACH	4	60.80	243.20
27	9.136	Providing and fixing fire resistant door frame of section 143 x 57 mm having built in rebate made out of 16 SWG G.I. sheet (zinc coating not less than 120 gm/sqm) duly filled with vermiculite based concrete mix, suitable for mounting 60 minutes fire rated door shutters. The frame is fitted with intumescent fire seal strip of size 10x4 mm (minimum) around the frame and fixing with dash fastener of approved size and make, including applying a coat of approved brand fire resistant primer etc. complete as per direction of Engineer-in-charge (Dash fastener to be paid for separately).	Rmt.	36.63	1462.70	53578.70
28	9.137	Providing and fixing 50 mm thick glazed fire resistant door shutters of 60 minutes fire rating conforming to IS:3614 (Part-II), tested and certified as per laboratory approved by Engineer-in-charge, with suitable mounting on door frame, consisting of vertical styles, lock rail, top rail 100 mm wide, bottom rail 200 mm wide, made out of 16 SWG G.I. sheet (zinc coating not less than 120 gm/ m2) duly filled FR insulation material and fixing with necessary stainless steel ball bearing hinges of approved make, including applying a coat of approved fire resistant primer etc. all complete as per direction of Engineer-incharge (panneling to be paid for separately).	Sqm	18.71	6445.00	120592.40
29	9.138.1	Providing and fixing glazing in fire resistant door shutters, fixed panels, ventilators and partitions etc., with G.I. beading of appropriate size, made out of 20 SWG G.I. sheet (zinc coating not less than 120 gm/m2), fire resistant sealant, including applying a coat of approved fire resistant primer on G.I. beading etc., complete all as per direction of Engineer-in-charge. With clear fire resistant glass panes 6 mm thick of approved brand, having minimum 60 minutes fire resistance	Sqm	18.71	31796.30	594940.57

Sl. No.	BSR-2022	DESCRIPTION	UNIT	QTY.	RATE (in Rs.)	Amount (in Rs.)
30	9.139	Providing and fixing panic bar / latch (Double point) fitted with a single body, Trim Latch & Lock on backside of the Panic Latch of reputed brand and manufacture to be approved by the Engineer- in- charge,all complete.	Each	6.60	7061.50	46605.90
31	MR	Providing & fixing of wooden acoustic doors with main door frame of hardwood & the acoustic door leaf made using 50mm framework, acoustic insulation as infill, ply installed on either side & finally finished with laminate as per approved colour & design.Door to have complete hardware set (door closure, door handles, hinges, lock & drop down seal) all of approved make & ISI mark only.	Sqm	2.67	55000.00	147086.00
	10.0	STEEL WORK				
32	10.6.1	Supplying and fixing-rolling shutters of approved make.made of required size of M.S.laths interlocked together through their intire length and jointed together at the end by end locks mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 - part 1 and M.S. top cover of required thickness for rolling shutters. 80x1.25mmM.S. Laths with 1.25mm thick top cover.	sqm	512.10	2673.70	1369207.14
33	10.7	Providing and fixing ball bearing for rolling shutters.	Each	46.00	424.20	19513.20
34	10.8.1	Extra for providing mechanical device chain and crank operation for operating rolling shutters: Exceeding 10.00 sqm and upto 16.80 sqm in area (say average 14 sqm)	sqm	536.49	1108.70	594804.05
35	10.36	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes,channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts,fasteners etc.).	KG	1011.78	546.80	553241.30
	11.0	FLOORING WORK				

No.	BSR-2022	DESCRIPTION	UNIT	QTY.	RATE (in Rs.)	Amount (in Rs.)
36	11.26	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 . Base with 1:1:1 (1 lime : 1 surkhi: 1 coarse sand) / 1:4 (1 cement: 4 coarse sand)				
	11.26.1	20 to 25 mm thick -	Sqm	1182.19	1252.70	1480935.60
37	11.27	Kota stone slabs 20 mm thick in risers of steps skirting. Dado & pillars laid on 12 mm (average (thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete.	Sqm	25.28	1334.90	33747.27
38	11.31	Extra for pre finished nosing in treads of steps of Kota stone/ sand stone slab.	rmt	205.79	82.90	17060.37
39	11.32	Extra for Kota stone/ sand stone in treads of steps and risers using single length up to 1.05 metre.	Sqm	96.64	18.10	1749.18
40	11.36	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (Thickness to be specified by the manufacture) of approved make in all colours, shades except burgundy , bottle green , black of any size as approved by Engineer-in-charge in skirting , risers of steps and dados over 12 mm thick bed of cement Motar 1:3(1 cement: 3 coarse sand) and jointing with grey cement slurry @ 3.3 kg per sqm including pointing in white cement mixed with pigment of matching shade complete.	Sqm	175.41	795.00	139447.16
41	11.37	Providing and laying Ceramic glazed floor tiles 300x300 mm (thickness to be specified by the manufacturer) of ist quality conforming to IS : 15622 of approved make in colours such as white , Ivory , Grey , Fume Red , Brown, laid on 20 mm thick Cement motar 1:4 (1 cement: 4 coarse sand) including pointing the joints with white cement and matching pigment etc., complete.	Sqm	96.24	686.80	66099.97
42	11.41	Providing and laying vitrified floor tiles in different sizes {thickness to be specified by the manufactruer) with water absorption's less than 0.08 % and conforming to IS : 15622 of approved make in all colours and shades, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) including grouting the joint with white cement and matching pigments etc., complete.				
	11.41.2	Size of Tile 60x60 cm	Sqm	1950.78	1638.80	3196942.47

No.	BSR-2022	DESCRIPTION	UNIT	QTY.	RATE (in Rs.)	Amount (in Rs.)
43	11.46	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), including grouting the joint with white cement & matching pigments etc. complete.				
	11.46.2	Size of Tile 600 x 600 mm.	Sqm	101.20	1191.80	120614.62
44	11.72	Providing designation 100 A one brick flat soling joints filled with local sand including cost of watering, taxes, royalty all complete as per building specification and direction of E/I,	Sqm	1325.72	283.30	375576.48
	12.0	ROOFING				
45	12.38.1	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement:2 coarse sand:4 stone aggregate 10mm and down gauge) including finishing with cement mortar 1:3(1 cement::3 coarse sand)as per standard design.In 75x75 mm deep chase	rmt.	159.03	66.00	10495.98
46	12.39	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement:2 coarse sand:4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 mx1 mx400 micron, finished 12 mm cement plaster 1:3 (1 cement:3 coarse sand) and a coat of neat cement rounding the edges and making and finishing the outlet complete	each	10.00	189.40	1894.00
	13.0	FINISHING WORK				
47	13.11	12 mm cement plaster of mix :				
	13.11.4	1:6(1 cement: 6 coarse sand)	Sqm	4649.94	141.50	657967.00
48	13.13	20 mm cement plaster of mix :				
	13.13.2	1:4 (1 cement: 4 coarse sand)	Sqm	1924.62	209.90	403977.06
49	13.24	6 mm cement plaster of mix :				
	13.24.1	1:3 (1 cement: 3 fine sand)	Sqm	3279.69	131.30	430623.05
50	13.36	Extra for providing and mixing water proofing material in proportion recommended by the manufacturers:				
	13.36.6	20 mm cement plaster 1:4(1 cement: 4 sand)	Sqm	1924.62	10.10	19438.63
51	13.80 A.2	Providing and applying white cement based putty of average thickness 2 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	Sqm	7929.63	105.40	835783.17
52	13.46.1	Finishing walls with Acrylic Smooth exterior paint of required shade : New work (Two or more coat applied @ 1.67 ltr/ 10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm)	Sqm	1924.62	137.00	263672.50

No.	BSR-2022	DESCRIPTION	UNIT	QTY.	RATE (in Rs.)	Amount (in Rs.)
53	13.48A.1	Finishing walls with 100% Premium acrylic emulsion paint having VOC less than 50 gm/litre and UV resistance as per IS 15489:2004, Alkali & fungal resistance, dirt resistance exterior paint of required shade (Company Depot Tinted) with silicon additives. New work (Two or more coats applied @ 1.43 litre/ 10 sqm. Over and including priming coat of exterior primer applied @ 0.90 litre/10 sqm.	Sqm	7929.63	112.00	888118.74
54	13.81.1	Applying priming coat: With ready mixed pink or grey primer of approved brand and manufacture on wood work (hard and softwood)	sqm	6.53	39.70	259.40
55	13.81.3	Applying priming coat: With ready mixed zinc chromate yellow primer of approved brand and manufacture on steel galvanized iron/steel works	sqm	1072.98	34.60	37124.96
56	13.93.1	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade: Two or more coats on new work	sqm	1079.51	84.50	91218.56
57	13.80 A.1	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	Sqm	1924.62	81.10	156086.42
	21.0	<u>Aluminium Work</u>				
58	MR	Providing and fixing frameless fully glazed 12mm thk toughened float glass door fixed with necessary patch fittings (Dorma make)including cutting, making holes, cut outs in the glass of required shape and size to ac BWR IS 303odate fittings and fixing the fittings in floors, soffits, jams including necessary fixtures, screws, sealant wherever required and SS cover over patch fittings. Rate shall include approved patch fitting locking systems, 1 pair of 12" long S. S. (C Shape) Handles of approved make, floor springs, and any necessary hardware items.(DORMA MAKE Top Pivot - PT 24, Top Patch Fittings - PT 20, Bottom Patch fittings - PT 10, Floor Spring - BTS 75 V, Corner lock with strike plate and Euro Profile Cylinder - US 10, Handle - TG 9300 EQ - S 25mm dia X 300mm length)	Sqm	127.51	9530.00	1215189.36
59	MR	Providing and fixing of 12 mm thick toughened glass partition with all sides polish with stainless steel frame with glass door including all hardware and accessories etc. complete as directed by Architect / Engineer.	Sqm	408.98	8420.00	3443576.40
	22.0	<u>WATER PROOFING</u>				

No.	BSR-2022	DESCRIPTION	UNIT	QTY.	RATE (in Rs.)	Amount (in Rs.)
60	22.3	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.(ii) 11 nd course of 20 mm cement plaster 1:3 (1 cement:3 coarse sand)mixed with water proofing compound in recommended proportion, (iii) 11rd course of applying blown or/residual bitumen applied hot at 1.7 kg. per sqm of area, (iv) 1vth 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).	Sqm	146.36	480.60	70340.22
61	22.8	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc, consisting of following operations. (a) Applying and grouting a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with proprietary water -proofing compound cleaning the surface before treatment, (b) Laying cement concrete using broken bricks / brick bats 25 mm to 100 mm size with 50 % of cement mortar 1:5 (1 cement: 5 coarse sand) admixed with proprietary water proofing compound conforming to IS : 2645 over 20 mm thick layer of cement mortar of mix 1:5 (1 cement: 5 coarse sand)				
		admixed with proprietary water proofing compound conforming to IS 2545 to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions, or walls and slabs. (c) After two days of proper curing applying a second coat of cement slurry admixed with proprietary water proofing compound conforming to IS : 2645. (d) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement: 4 coarse sand) admixed with proprietary water proofing compound conforming to IS : 2645 and finally finishing the surface with trowel with neat cement slurry and making of 300 x 300 mm square. (e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test, All above operations to be done in order and as directed and specified by the Engineer-in-Charge.				
	22.8.1	With average thickness of 120 mm and minimum thickness at khurras point to be 65 .	Sqm	1141.21	850.70	970827.35

No.	BSR-2022	DESCRIPTION	UNIT	QTY.	RATE (in Rs.)	Amount (in Rs.)
62	22.23	Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to the RCC structures like retaining walls of the basement, water tanks, roof slabs, podiums, reservoir, sewage & water treatment plant, tunnels / subway and bridge deck etc., prepared by mixing in the ratio of 5 : 2 (5 parts integral crystalline slurry : 2 parts water) for vertical surfaces and 3 : 1 (3 parts integral crystalline slurry : 1 part water) for horizontal surfaces and applying the same from negative (internal) side with the help of synthetic fiber brush. The material shall meet the requirements as specified in ACI-212-3R-2010 i.e by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The crystalline slurry shall be capable of self-healing of cracks up to a width of 0.50mm. The work shall be carried out all complete as per specification and the direction of the engineer- in-charge. The product performance shall carry guarantee for 10 years against any leakage.				
	22.23.1	For vertical surface two coats @0.70 kg per sqm	Sqm	602.93	406.20	244909.08
63	22.23.2	For horizontal surface one coat @1.10 kg per sqm.	Sqm	1650.52	311.50	514136.05
64	22.26	Providing and applying of swellable type water stop tape, 19mm x 25mm thick in linear meter (expansive nature) for construction joints treatment of RCC structure such as raft slab, retaining walls, water storage tank and at the junctions of raft slab with the retaining walls etc.. After cleaning the surface, one coat of required primer for swellable water stop tape shall be applied throughout the length of the joint @3.78 litre per 240 running meter. Over the primed surface swellable type water stop tape shall be placed. The work shall be carried out all complete as per specification and the direction of the engineer-in-charge. The product performance shall carry guarantee for 10 years against any leakage.	metre	406.10	489.40	198744.36
	26A	<u>STRUCTURAL GLAZING AND ALUMINIUM COMPOSITE PANEL</u>				



No.	BSR-2022	DESCRIPTION	UNIT	QTY.	RATE (in Rs.)	Amount (in Rs.)
65	26.8	"Design supply & installation of suspended Spider Glozing system designed to withstand the wind pressure as pr IS 875 (Part-III). The Suspended System held with Spider Fittings of SS-316 Grade Steel of approved manufacturer with glass panel having 12 mm thick clear toughened glass held together with SS- 316 Grade Stainless steel Spider & bolt assembly with laminated glass fins 21 mm thick. The Glass fins and glass panel assembly shall be connected to Slab/beams by means of SS- 316 Grade stainless steel brackets & Anchor bolts and at the bottom using SS channel of 50x25x2mm using fastener & anchor bolts, non staining weather sealants of approved make, Teflon/ nylon bushes and separators to prevent bimetallic contacts, all complete to perform as per specification and approved drawings. The complete system to be designed to accommodate thermal expansion & seismic movements etc. The joints between glass panels (6 to 8 mm) and gaps at the erimeter & in U channel of the assembly to be filled with non staining weather sealant, so as to make the entire system fully water proof & dust proof. The rate shall include all design, Engineering and shop drawing including approval from structural designer, labour, T&D scaffolding	Sqm	220.97	3899.70	861708.91
		SANITATION & PLUMBING WORK				
66	17.3	Providing & fixing of white vitreous china pedestal type water closet (European type) with seat and lid, 10litre low level white vitreou china flushing cistern & cp flush bend with fittings & CI brackets, 40mm flush bend, overflow arrangement with special 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 required.				
	17.3.1	W.C pan with ISI marked wiyh solid plastic seat and lid	Each	17.00	5504.30	93573.10
67	17.4	Providing & fixing white vitrous china flat back or wall corner type lipped front urinal basin of 430X260X350 mm and 340X410X265 mm sizes respectively with automatic flushing cistern with standerad flush pipe C.P brass spreaders with brass unions and GI clamps complete including painting of fittings and brackets, cutting and making good the walls and floors wherever required:				
	17.4.1	One urinal bain with 5 litre white P.V.C automatic flushing cistern	Each	8.00	3723.20	29785.60



BSR-2022	DESCRIPTION	UNIT	QTY.	RATE (in Rs.)	Amount (in Rs.)
68	17.7	Providing and fixing wash basin with C.I brackets, 15 mm cp brass pillar taps, 32 mm cp brass waste of standar pattern, including painting of fittings and brackets, cutting and making good the walls required:			
	17.7.4	White vitreous china wash basin size 550X 400mm with single 15 mm C.P brass pillar tap	Each	17.00	2135.00
69		Providing & fixing of CP brass pressmatic self closing pillar tap (Hindware cat. No. F310001ACP/ Jaquar cat no.PRS-031 / or approved equivalent) as per direction of Engineer-Incharge.	Each	2356.00	
70	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.			
		15 mm nominal bore	Each	17.00	708.40
71	17.22A	Providing and fixing CP Brass 32mm size Bottle Trap of approved quality & make and as per the direction of Engineer-in-charge.	Each	17.00	886.20
72	18.53	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931	Each	17.00	500.40
		18.53.1 15 mm nominal bore			
73	MR	Providing and fixing push fit type WC pan connector (Kohler Cat No.1036902 / Mcalpine Cat no. MAC - 1 or approved equivalent) with high quality polypropylene plastic with rubber sealing washer. The internal rubber gasket in EASI-fit pan connectors and extremely water tighsupplied spring loaded seal guard. single mould sealing fins made of flexible EVA body, including bush/adaptor. complete in all respect.	Each	17.00	1012.00
		SUB HEAD - II : SOIL,WASTE, VENT & RAIN WATER PIPES			
74	17.35	Providing and fixing soil, waste and vent pipes			
	17.35.1	100mm dia			
	17.35.1.3	Hubless centrifugally cast (spun) iron pipes epoxy coated inside & outside IS:15905	Metre	130.00	1022.90
75	17.37	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 10 x 10 x 10 cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) including cost of cutting holes and making good the walls etc.			
	17.37.1	For 100mm dia pipe	Each	450.00	178.50
76	17.39	Providing and fixing plain bend of required degree.			
	17.39.1	100mm dia			

68

BSR-2022	DESCRIPTION	UNIT	QTY.	RATE (in Rs.)	Amount (in Rs.)
17.39.1.3	Hubless centrifugally cast (spun) iron pipes epoxy coated inside & outside IS:15905	Each	20.00	346.10	6922.00
76	17.44 Providing and fixing single equal plain junction of required degree :				
17.44.1	100 x 100 x 100mm				
17.44.1.3	Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:15905	Each	20.00	573.50	11470.00
77	17.56 Providing and fixing terminal guard.				
17.56.1	100mm				
17.56.1.3	Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:15905	Each	10.00	399.60	3996.00
78	17.57A Providing and fixing shielded coupling for Hubless centrifugally cast iron pipe.				
17.57A.1	100mm dia				
17.57A.1.1	SS 304 grade coupling with EPDM rubber gasket	Each	25.00	406.30	10157.50
79	17.59 Providing and fixing M.S stays and clamps for sand cast iron/centrifugally cast (spun) iron pipes of diameter.				
17.59.1	100mm	Each	50.00	128.70	6435.00
80	17.6 Providing and fixing trap of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors :				
17.60.1	100mm inlet and 100mm outlet				
17.60.1.3	Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:15905	Each	42.00	760.80	31953.60
81	17.65 Painting sand cast iron / centrifugally cast (spun) iron soil, waste vent pipes and fittings with paint of any color such as chocolate grey ,or buff etc .over a coat of primer (of approved quality) for new work .				
17.65.1	100 mm diameter pipe	Metre	10.00	46.10	461.00
82	MR Providing and fixing G.I reducer/hopper/elbow (Floor Drain) of 100 x 50mm, complete as per instructions of the Engineer in charge.(grating and G.I pipe to be paid separately)	Each	17.00	1100.00	18700.00
83	MR Providing and fixing 100mm dia G.I. inlet fitting consisting of 100mm dia main G.I pipe with multiple G.I. sockets (Inlets) of required diameter welded to it (as per site requirement) and fixing the same to C.I trap and setting in cement concrete, complete as per instructions of the Engineer in charge.	Each	50.00	2100.00	105000.00
84	18.58 Providing and fixing PTMT grating of approved quality and colour.				
18.58.1.2	125 mm nominal dia with 25 mm waste hole	Each	42.00	45.20	1898.40
85	12.44 Providing and fixing to the inlet mouth of rain water pipe cast iron grating 15cm diameter and weighing not less than 440 grams.	Each		40.90	

BSR-2022

DESCRIPTION

UNIT

QTY.

RATE
(in Rs.)Amount
(in Rs.)

86

18.7

Providing and fixing chlorinated poly vinyl chloride (CPVC) pipes having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fitting, including fixing the pipe with clamps at 1 m spacing. This includes jointing of pipes & fitting with one step CPVC solvent cement and cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.

Internal work- Exposed on wall

a

18.7.2

20mm nominal outer dia. Pipes.

Metre

50.00

233.90

11695.00

b

18.7.3

25mm nominal outer dia. Pipes.

Metre

30.00

317.30

9519.00

87

18.8

Providing and fixing chlorinated poly vinyl chloride (CPVC) pipes having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fitting, including fixing the pipe with clamps at 1 m spacing. This includes jointing of pipes & fitting with one step CPVC solvent cement and 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 wall etc.

18.8.2

20mm nominal outer dia. Pipes.

Metre

125.00

350.80

43850.00

88

18.18

Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete

18.18.3

25mm nominal bore

Each

20.00

463.10

9262.00

89

18.9

Providing and fixing chlorinated poly vinyl chloride (CPVC) pipes having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fitting, including fixing the pipe with clamps at 1 m spacing. This includes jointing of pipes & fitting with one step CPVC solvent cement and cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.

External work,

a

18.9.3

25 mm nominal outer dia. Pipes (From terrace to Ground floor)

Metre

100.00

294.70

29470.00

b

18.9.4

32 mm nominal outer dia. Pipes (From terrace to 1st floor toilet)

Metre

75.00

359.10

26932.50

c

18.9.5

40mm nominal outer dia. pipes (From boaring to water tank)

Metre

50.00

477.60

23880.00

d

18.9.7

65 mm nominal outer dia. Pipes (For ring line on terrace)

Metre

15.00

1476.00

22140.00

90

MR

Providing & fixing Auto Air vent for cold water supply risers, suitable for pressure not less than 15 Kg/Sq.cm.

15 mm dia

Each

2.00

735.00

1470.00

91

19.1

Providing, laying and jointing glazed stoneware pipes class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete

BSR-2022	DESCRIPTION	UNIT	QTY.	RATE (in Rs.)	Amount (in Rs.)
19.1.2	150 mm diameter	Meter		464.30	
92	19.4				
	Providing and fixing square mouth S.W. gully trap grade 'A' complete with C.I. Grating brick masonry chamber with bricks of class designation 75 and water tight C.I. Cover with frame of 300x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design				
	19.4 .2				
	150x100 mm size P type				
	19.4.2.1	Each	15.00	1908.90	28633.50
	With FPS bricks class designation 75				
93	19.7				
	Constructing brick masonry manhole with 75 class designation bricks in cement mortar 1:4 (1 cement: 4 coarse sand) R.C.C. top slab 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 standard design.				
	19.7.1				
	Inside size 90x80 cm and 45 cm deep including CI Cover with frame (light duty as per IS:12592) 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)				
94	19.7.1.1	Each	15.00	7914.00	118710.00
	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5				
95	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				
	19.28.1	Each	15.00	4384.50	65767.50
	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5				
96	19.21				
	Making connection of drain or sewer line with existing manhole including breaking into and manhole good the wakll, floors with cement concrete 1:2:4 mix (1 Cement : 2 Coarse Sand : 4 Graded Stone Aggregate 20mm 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: .				
	19.21.1	Each	2.00	375.90	751.80
	For pipe 100 to 250 mm diameter				
97	Carriage Cost of Material				
	Cement	MT	722.80	386.46	279333.29

22

BSR-2022		DESCRIPTION	UNIT	QTY.	RATE (in Rs.)	Amount (in Rs.)
		Sand	cum	1566.22	3170.66	4965951.11
		Local Sand	cum	388.03	316.34	122749.41
		Stone Chips	cum	1360.39	2421.82	3294619.71
		Brick	Thous.	573.77	1214.83	697033.01
		Steel	MT	217.56	386.46	84078.24
		Earth	Cum	290.77		
98		Extra Cost of Material				
		Brick	Thous.	573.77	806.25	462602.06
		Cement	Bag	14456	4.89	70689.84
				TOTAL		68913919.23
99		Add Difference of G.S.T. (5.36%)				3693786.07
				TOTAL (A)		72607705.30
100		Seigniorage Fees of Material				
		Cement	MT	722.8		
		Sand	cum	1566.22	25.08	39280.80
		Local Sand	cum	388.03	14.19	5506.15
		Stone Chips	cum	1360.39	59.53	80984.02
		Brick	Thous.	573.77	554.50	318155.47
		Steel	MT	217.56		
		Earth	Cum	290.77	3.30	959.54
		ELECTRIFICATION				
101	1.3	Wiring for light point/ fan point/ exhaust fan point with 1.5 sq. mm FR PVC insulated copper conductor single core cable in surface/ recessed PVC conduit, with modular type switch, modular Plate, suitable size G.I box etc. as required.				
		Point				
	1.3.3	Group C	Each	760.00	1146.00	870960.00
102	1.7	Wiring for circuit/ submain wiring along with earth wire with the following sizes PVC insulated copper conductor, single core cable in surface/ recessed PVC conduit as required.				
a	1.7.2	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire(For Ckt,Power)	p. mtrs.	1700.00	246.00	418200.00
b	1.7.3	2 X 4 sq. mm + 1 X 4 sq. mm earth wire(For AC)	p. mtrs.	660.00	309.00	203940.00
c	1.7.5	2 X 10 sq. mm + 1 X 6 sq. mm earth wire (for each shop DB & common area DB)	p. mtrs.	1480.00	557.00	824360.00
103	1202	25mm dia. ISI marked, PVC conduit (Conduit for ckt. power, submain)	RM	1140.00	40.00	45600.00
104	1207	25mm dia.PVC bend	Each	200.00	15.18	3036.00
105	1217	25mm dia.iron staple/saddles/screws	Each	1000.00	13.80	13800.00
106	1222	25mm dia. PVC junction box	Each	400.00	26.22	10488.00
		GI BOX & SWITCH ACCESSORIES				
107	1301	Moduler GI box for 2 module	Each	46.00	45.54	2094.84
108	1403	S.P 5/6 amps,one way moduler switch ISI marked	Each	70.00	46.92	3284.40
109	1406	S.P 5/6 amps, moduler socket outlet ISI marked	Each	70.00	86.94	6085.80
110	1409	Stepped type modular fan regulator (2Moduler)	Each	89.00	33.60	2990.40
111	1439	25 amps modular type A.C unit set with ON/OFF MCB	Each	46.00	517.50	23805.00
112	1440	6 pin 25 amp modular type socket ISI marked	Each	46.00	172.50	7935.00

BSR-2022		DESCRIPTION	UNIT	QTY.	RATE (in Rs.)	Amount (in Rs.)
113	1.26	supplying and fixing modular Blanking plate on the existing modular plate and switch box excluding modular plate as required.	Each	300.00	34.00	10200.00
114	1.28	supplying and fixing following modular base and cover plate on existing modular metal box etc. as required.				
a	1.28.1	1/2 module	Each	46.00	105.00	4830.00
b	1.28.2	3 module	Each	10.00	125.00	1250.00
115	1.32	Supplying and fixing suitable size G.I. box with modular plate and cover in front on surface or recess including providing and fixing 6 pin, 5/6 & 15/16 amps modular socket outlet and 15/16 amps modular type switch connection, painting etc. as required. (for power)	Each	56.00	531.00	29736.00
116	1.33	Supplying and fixing 2 pin 5/6 amp ceiling rose on the existing junction box/wooden block including connection etc as required	Each	30.00	64.00	1920.00
117	1.34	Supplying and fixing batten/angle holder including connection etc. as required	Each	18.00	80.00	1440.00
		DB'S MCB				
118	2.8	S/F/F Way horizontal three Pole & neutral, sheet steel, MCB distribution board, 240V on surface/recess, complete with tinned copper busbar, neutral busbar, earth bar, din bar interconnections, power painted including earthing etc as reqd. (But without MCB/RCCB/Isolator)				
	2.8.7	12 Way double door (For each shop DB)	Each	45.00	2314.00	104130.00
119	2.12	Supplying and fixing following rating, 240/415 volts, 'C' series, miniature circuit breaker suitable for inductive loads of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
	2.12.1	6/32 amps, single pole,	Each	105.00	237.00	24885.00
120	2.12.7	40A to 63A SPN	Each	47.00	1859.00	87373.00
121	1720	25amps, rating, 2 pole RCCB, 30ma	Each	45.00	2012.40	90558.00
		TOTAL--C				
		FIXTURE AND FITTING				
122	8.15	supply and installation of regular/standard model A.C ceiling fan of 1200 mm sweep with service value (CM/MM) minimum 4.00 air delivery minimum 210 cum/min including wiring the down road of length (upto 30 cm) with 1.5 sq. mm FRLS pvc insulated copper conductor etc as required.	Each	89.00	2482.00	220898.00
123	8.18	supply and installation of following sweep sizes PVC/ABS square body exhaust fan with automatic opnable louver shutter in existing opening including making connection, testing etc. as required				
124	8.18.3	250 mm sweep(1300/1400RPM)	Each	4.00	2288.00	9152.00

BSR-2022		DESCRIPTION	UNIT	QTY.	RATE (in Rs.)	Amount (in Rs.)
125	5.8	Supplying and fixing surface mounted following types LED downlighter with minimum efficiency 100lm/w in pressure die-cast aluminium housing and integrated electronic driver etc directly on ceiling including connections with 1.5 sq mm FRLS PVC insulated copper conductor cable etc as required.				
	5.8.2	15 watt	Each	603.00	1608.00	969624.00
126	6.1	Supplying and fixing of following types lamp in the existing electrical fitting /fixtures etc. as required.				
	6.1.4	9/10 Watt LED lamp	Each	18.00	239.00	4302.00
		EARTHING				
		COPPER EARTHING				
127	3.6	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 2.7 meter long etc. with charcoal/ coke and salt as required.	Set	8.00	13721.00	109768.00
128	1827	8SWG copper wire(4.0mm dia.)	kg	40.00	2521.26	100850.40
129	1202	25mm dia. ISI marked, PVC conduit	RM	200.00	40.02	8004.00
130	1821	10mmX25mm long tinned brass bolt with nut etc.	Each	32.00	43.47	1391.04
		LT POWER CABLE				
131	2209	Supply, and installing of 3.5CX 95 sq. mm XLPE insulated PVC sheathed(HEAVY DUTY) steel armoured electric cable with aluminium conductor ISI marked LT Cables(From DG set to panel)	P. mtr.	60.00	9321.54	559292.40
132	2211	Supply, and installing of 3.5CX 150 sq. mm XLPE insulated PVC sheathed(HEAVY DUTY) steel armoured electric cable with aluminium conductor ISI marked LT Cables(From pole to panel and from DG set to panel)	P. mtr.	60.00	1375.00	82500.00
133	2124DSR	Brass compression gland for(45 mm) 3.5C X 95 sq.mm 1.1kv grade cable	Set	1.00	236.52	236.52
134	2126DSR	Brass compression gland for(50 mm) 3.5C X 150 sq.mm 1.1kv grade cable	Set	1.00	304.50	304.50
135	2206DSR	Aluminium lugs for 50 sq. mm cable	Each	2.00	10.58	21.16
136	2207DSR	Aluminium lugs for 70 sq. mm cable	Each	1.00	1645.00	1645.00
137	2208DSR	Aluminium lugs for 95 sq. mm cable	Each	6.00	17.64	105.84
138	2210DSR	Aluminium lugs for 150 sq. mm cable	Each	3.00	32.00	96.00
139	7.3	Laying of one number PVC sheathed/XLPE power cable of 1.1KV grade of following size direct in ground including excavation, and refilling the trench etc. excluding sand cushioning and protecting covering				
	7.3.3	above 95 sq.mm upto 185 sq.mm	P. mtr.	120.00	143.00	17160.00
		PANEL				
140	2.4	providing and fixing following rating and breaking capacity MCCB in existing cubicle panel board including drilling holes cubicle panel, making connections etc. As required.				
	2.4.5	250A, 36KA FP MCCB	Each	2.00	18646.00	37292.00

24

BSR-2022		DESCRIPTION	UNIT	QTY.	RATE (in Rs.)	Amount (in Rs.)
141	2.7	providing and fixing following capacity four pole ON-LOAD/Panel mounted changeover switchs inside the exsiting cubicle panel board including drilling holes in cubicle panel, making connections etc. as required (but without bus bar copper strip)				
	2.7.7	250A four pole	Each	1.00	21415.00	21415.00
142	1826	S/F of copper strip for bus bar chamber in exist cubical pannel(32X6mm 1.705kg/mtr.)	Kg	24.00	872.00	20928.00
143	8.11	supplying and fixing wall/floor mounted cubical panel board,febricated with 16 gauge iron sheet, suitable for panel mounted switch disconecter including bus bar chamber, insulator and painting etc. As required	sq.ft	36.00	1809.00	65124.00
144	8.13	Supply and fixing digital multimeter, three phase with CT coil and RYB pilot lamp in the existing cubical panel board including drilling holes in the panel board, making connection etc. As required.	each	6.00	6536.00	39216.00
145	1103	4 sq mm mm ISI marked,FRLS PVC insulated single core copper conductor cable	P. mtr.	40.00	57.96	2318.40
146	1104	6sq mm mm ISI marked,FRLS PVC insulated single core copper conductor cable	P. mtr.	150.00	86.94	13041.00
147	1105	10 sq mm mm ISI marked,FRLS PVC insulated single core copper conductor cable	P. mtr.	150.00	146.28	21942.00
148	2.13	Supplying and fixing following rating, double pole 240/415 volts, 'C' series, isolator suitable for inductive loads of following in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
a	2.13.3	40A to 63A DP (panel outgoing)	Each	50.00	1198.00	59900.00
b	2.13.4	40A to 63A FP (panel outgoing for Lift)	Each	2.00	2324.00	4648.00
149	H	TRANSFORMER				
		Design, manufacture , supply, unloading at site of 160 KVA Transformer with percentage impedance 4.5% (without negative tolerance) 11 KV / 415 V, 3 phase, 50 Hz delta/star connected, outdoor, copper wound, oil type , Transformer as per Latest IS 2026-LEVEL with OCTC + 5 % to -5% tapping at the step of 1.5% with class A insulation complete with all fittings , bi-directional roller, diagrams & rating plate & Winding & oil temperature indicator, lifting lugs, pressure vent, termination of cable on HT side & LT side with bottom entry. including two pole structure material and installation				
		Terminal Arrangement : H T Side : Cable box shall be suitable for 3 core 50 sqmm 33kV (E) XLPE cable on HT side. LT Side : Flanges suitable for three no of 3.5C x 120sqmm A2XFY XLPE LT cable on LT side.				
		Tests :				

SR-2022

		DESCRIPTION	UNIT	QTY.	RATE (in Rs.)	Amount (in Rs.)
		The transformer shall be tested for routine tests as per relevant Indian Standards. The type test certificate shall be furnished along with routine test certificate with offer.				
		Factory Testing of Transformer:				
		a) Physical Inspection & Dimension Check				
		b) Polarity Test/Phasing Test.				
		c) Voltage Ratio Test with tapping changing.				
		d) Winding Resistance Measurement.				
		e) No Load Test & No Load Losses.				
		f) Short Circuit Test & Full load losses.				
		g) High Voltage Test.				
		h) Insulation Resistance Test.				
		i) Voltage Regulation Test.				
		j) Percentage Impedance Test.				
		k) Winding Temperature, Alarm & Trip Test.				
		l) Polarisation Index				
		m) Load Test as per standard.				
		Site Testing of Transformer:				
		a) Physical Inspection & Dimension Check				
		b) Polarity Test/Phasing Test.				
		c) Voltage Ratio Test with tapping changing.				
		d) Winding Resistance Measurement.				
		e) Insulation Resistance Test.				
		f) Voltage Regulation Test.				
		g) Polarisation Index				
		h) Magnetic Balance Test				
		i) dB Level Measurement				
		(Approval of consultants to be obtained before ordering the unit).				
		Electrical Contractor to include the Cost for Travelling to Factory , Factory Testing & Site Testing as listed above				
		FACTORY TESTING REPORT TO BE SUBMITTED BEFORE DISPATCH.	Set	1.00	792000.00	792000.00
150	I	DG				
		Supply, Transportation , Erection & Commissioning of 82.5. kVA /66 kW (at 0.8 PF) Prime Power, 3 Phase 415 Volts, 1500 RPM continuously rated Radiator Cooled, Diesel Generator set. The set shall have one hour overload capacity of 10% in every 12 Hours of duration of operation. The rate shall be inclusive of anti-vibration pads, common mounting base frame fabricated out of MS channel / Beams & associated accessories as detailed in specifications. The Alternator shall be provided with cable end box. inspection & testing of DG set at Factory. including foundation	Set	1.00		
	J	CAMPOUS POLE & LIGHT				
151	2302	6 metre height octagonal hot-dip galvanised street light poles with top dia. (A/F) 70 mm and bottom dia. (A/F) 130 mm and made of 3mm thick sheet, base plate dimension 220X220X12 mm including suitable size foundation bolts etc.	Each	34.00	18630.00	633420.00

No. BSR-2022

		DESCRIPTION	UNIT	QTY.	RATE (in Rs.)	Amount (in Rs.)
152	8.9	Supplying and fixing pole mounted junction box/fuse box for single phase by 2 pole low wattage street light pole with all accessories and connection etc. as required.	Each	34.00	825.00	28050.00
153	9.15	Supplying and laying of following size DWC HDPE pipe/ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 14930, part II complete with fitting and cutting, jointing etc. direct in ground (75 cm below ground level) including excavation and refilling the trench but excluding stand cushioning and protective covering etc. complete as required. in the existing trench, complete as required.				
	9.15.1	63mm dia. (OD - 51 mm & ID 76 mm nominal)	Metre	210.00	202.00	42420.00
154	2021	90 watt LED street light with pressure dia. cast housing, toughend glass, IP 65 protection and complete with electronic driver etc. minimum efficiency 100lm/w	Each	34.00	5106.00	173604.00
155	7.7	Supply of following sizes and core PVC/XLPE insulated, PVC sheathed (heavy duty) armoured electrical power cable with aluminium conductor for working voltage upto 1.1 kv as required.				
	7.7.5	16 sq. mm 2 core including toilet	Metre	325.00	205.00	66625.00
					TOTAL	79952786.97
					Say	₹ 7,99,52,787.00

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BOB is approved for 7,99,52,787/- (Seven crore ninety nine lakh fifty two lakh seven hundred eighty seven rupees only)

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