

Name Of Work:- Construction of New Fabricated Classroom & Toilet Block at Gujarat Biotechnology University, Gandhinagar

Name Of Architects:- EsTeam

Name Of Client:- Gujarat Biotechnology University, Gandhinagar

Abstracts Sheet

Sr. No.	Rate Reference	Estimated Quantity	Discription	Unit	S.O.R :2023-24 RATE	Rate with 1% labour cess	Total Amount
1	SOR -2023/24, 20002+20003B	12.00	Demolishing Including RCC/Brick manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within any lead & any lift as per direction of Engineer-in-charge.	Cu.mt	1592.33	1,608.25	19,299.04
2	RA	408.54	Demolishing Paver Block manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within any lead & any lift as per direction of Engineer-in-charge.	Sq.Mt	150.00	151.50	61,893.81
3	RA	37.00	Demolishing Kerb stone manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within any lead & any lift as per direction of Engineer-in-charge.	Rmt.	85.00	85.85	3,176.45
4	SOR -2023/24, 04001B	117.46	Excavation for foundation upto 1.5 mt.depth All kind of Soil.Including Hard Murram and Soft Rock etc including strutting, sorting & Dewatering out and stacking of unuseful materials and disposing off the excavated stuff upto any lead and lift.(Excavated earth / Stuff to be stacked and surplus earth/unuseble material to be disposed with the permission of local authority any lavies/charges to be paid by agencies and no extra payments will be made and disposed at non objectionable place to be found by the Contractor. )	Cu.mt	148.19	149.67	17,580.46
5	SOR -2023/24, 04008A	244.01	Filling in plinth with Murram brought from outside including watering, ramming, Compacting with Vibro Roller (If Possible) consolidating and dressing etc. complete. (and compacting the layers to give at least 95% of maximum dry density). Royalty shall be paid by contractor and supproting document submitted to client for verification.	Cu.mt	286.20	289.06	70,534.02
6	SOR -2023/24, 04007A	48.89	Filling in plinth with sand under floors including watering, ramming, consolidating and dressing etc. complete.(Royalty shall be paid by contractor and supproting document submitted to client for verification.)	Cu.mt	455.63	460.19	22,498.51
7	DSR-2023/24, 20.1.2	96.00	Providing, driving with hydraulic piling rigs with power units and installing driven cast-institu reinforced cement concrete piles of grade M-25 of specified diameter and length below the pile cap, to carry safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of shoe and the length of pile to be embedded in the pile cap etc. all complete. (Length of pile for payment shall be measured from top of shoe to the bottom of pile cap) <b>A. 450 mm dia piles</b>	Rmt.	3430.65	3,464.96	3,32,635.82
8	SOR -2023/24, 05010AA	19.51	Providing and laying cement concrete 1:2:4 (1- Cement : 2- Coarse sand : 4- graded stone aggregates 20 mm nominal size) and curing complete Including cost of formwork in (A) Foundation and Plinth	Cu.mt	3661.30	3,697.91	72,146.28
9	SOR -2023/24, 05003A	60.77	Providing and laying cement concrete 1:3:6 (1- Cement : 3- coarse sand : 6- hand broken stone aggregates 40 mmmnominal size) and curing complete Including cost of formwork in (A) Foundation and Plinth	Cu.mt	2976.00	3,005.76	1,82,660.04
10	RA	16.23	Providing and laying in position controlled Cement ConcreteM 25 Grade for Reinforced Cement Concrete work using cement content as per approved design mix including pumping,Pouring, curing of Concrete to site of laying, Rate are also including the cost of centering, shuttering, staging, scaffolding for considering upto 3.5 meter floor height, concrete cover blocks, finishing materials, labour and cost of admixtures in recommended proportion as per IS 9103 to accelerate / retard setting of concrete, improveworkability plasticizer/ retarder and pumping by mechanical means without impairing strength and durability as per direction of Engineer In charge etc complete but excluding the cost of reinforcement. <b>A) Foundation.</b>	Cu.mt	5764.08	5,821.72	94,486.53
11	RA	64.97	Providing and laying in position controlled Cement ConcreteM 25 Grade for Reinforced Cement Concrete work using cement content as per approved design mix including pumping,Pouring, curing of Concrete to site of laying, Rate are also including the cost of centering, shuttering, staging, scaffolding for considering upto 3.5 meter floor height, concrete cover blocks, finishing materials, labour and cost of admixtures in recommended proportion as per IS 9103 to accelerate / retard setting of concrete, improveworkability plasticizer/ retarder and pumping by mechanical means without impairing strength and durability as per direction of Engineer In charge etc complete but excluding the cost of reinforcement. <b>A) Plinth BEAMS / Ground BEAM</b>	Cu.mt	5594.07	5,650.01	3,67,081.20
12	RA	6.07	Providing and laying in position controlled Cement ConcreteM 25 Grade for Reinforced Cement Concrete work using cement content as per approved design mix including pumping,Pouring, curing of Concrete to site of laying, Rate are also including the cost of centering, shuttering, staging, scaffolding for considering upto 3.5 meter floor height, concrete cover blocks, finishing materials, labour and cost of admixtures in recommended proportion as per IS 9103 to accelerate / retard setting of concrete, improveworkability plasticizer/ retarder and pumping by mechanical means without impairing strength and durability as per direction of Engineer In charge etc complete but excluding the cost of reinforcement. <b>A) Column for Any Height.</b>	Cu.mt	7214.84	7,286.99	44,232.02
13	RA	1.00	Providing and laying in position controlled Cement ConcreteM 25 Grade for Reinforced Cement Concrete work using cement content as per approved design mix including pumping,Pouring, curing of Concrete to site of laying, Rate are also including the cost of centering, shuttering, staging, scaffolding for considering upto 3.5 meter floor height, concrete cover blocks, finishing materials, labour and cost of admixtures in recommended proportion as per IS 9103 to accelerate / retard setting of concrete, improveworkability plasticizer/ retarder and pumping by mechanical means without impairing strength and durability as per direction of Engineer In charge etc complete but excluding the cost of reinforcement. <b>A) Slab &amp; Beam for Any Height.</b>	Cu.mt	6236.56	6,298.93	6,298.93

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14	RA	2.96	Providing and laying in position controlled Cement Concrete M 25 Grade for Reinforced Cement Concrete work using cement content as per approved design mix including pumping, Pouring, curing of Concrete to site of laying, Rate are also including the cost of centering, shuttering, staging, scaffolding for considering upto 3.5 meter floor height, concrete cover blocks, finishing materials, labour and cost of admixtures in recommended proportion as per IS 9103 to accelerate / retard setting of concrete, improve workability plasticizer/ retarder and pumping by mechanical means without impairing strength and durability as per direction of Engineer In charge etc complete but excluding the cost of reinforcement. <b>A) Sill, Coping &amp; Chhajja for Any Height.</b>	Cu.mt	5450.85	5,505.36	16,295.86
15	RA	58.67	Providing and laying in position controlled Cement Concrete M 25 Grade for Reinforced Cement Concrete work using cement content as per approved design mix including pumping, Pouring, curing of Concrete to site of laying, Rate are also including the cost of centering, shuttering, staging, scaffolding for considering upto 3.5 meter floor height, concrete cover blocks, finishing materials, labour and cost of admixtures in recommended proportion as per IS 9103 to accelerate / retard setting of concrete, improve workability plasticizer/ retarder and pumping by mechanical means without impairing strength and durability as per direction of Engineer In charge etc complete but excluding the cost of reinforcement. <b>A) Grade slab.</b>	Cu.mt	5686.79	5,743.66	3,36,980.41
16	SOR -2023/24, 05014C	21742.55	Providing and laying TMT Bar FE 500/500D reinforcement for R.C.C. work and straightening, cutting, bending, binding & placing in position completed upto any floor any level as per I.S. Standard. complete.as directed by EIC.	Kg.	75.46	76.21	16,57,099.75
17	SOR -2023/24, 06001BA	49.40	Providing and Laying Brick work using common burnt clay building bricks having crushing strength not less than 35kg/Sqcm. in foundation and plinth. In cement mortar 1:5 (1 cement : 5 fine sand) (B) Conventional	Cu.mt	4011.66	4,051.78	2,00,157.76
18	SOR -2023/24, 06008A2A	22.39	Half brick masonry in common brunt clay building bricks having crushing strength not less than 35 Kg/Sq.Cm. in Cement mortar 1:4 (1- Cement : 4 -coarse sand ) in foundation and plinth (B) Conventional	Sq.mt	593.90	599.84	13,430.40
19	SOR -2023/24, 17023	42.68	Providing 10 mm thick cement plaster by using Ready Mix Mortar for plaster in single coat on brick/ concrete walls for interior plastering upto floor two level and finished even and smooth in Cement mortar 1:4 (1 Cement : 4 sand)	Sq.mt	115.95	117.11	4,998.23
20	SOR -2023/24, 17022	161.52	Providing 15 mm thick cement plaster by using Ready Mix Mortar for plaster in single coat on rough (similar) side of single or half brick walls for interior plastering upto floor two level and finished even and smooth in Cement mortar 1:4 (1 Cement : 4 sand)	Sq.mt	170.14	171.84	27,755.82
21	SOR -2023/24, 17017	199.19	Providing & laying 20 mm thick double coat sand face/mala cement plaster for all floor all height with use of Ready Mix mortar on interior/exterior Block, brick/ concrete work for plastering comprising of base coat of 12 mm thick cement plaster in cement mortar (1 cement: 4 coarse sand) in rough finishing and 8 mm thick top coat of cement mortar 1:2 (1 cement : 2 coarse sand) finished with trovel including scaffolding curing etc. complete. Including Water cement Compound.	Sq.mt	269.78	272.48	54,274.85
22	SOR -2023/24, 18031+18032,	139.59	Providing and applying Wall painting (three coats) with asian paint Royal or Equivalent paint of approved brand and manufacture including 2 coat of putty & 2 coat of Primer on wall surface to give an even shade including thoroughly brushing the surface free from mortar droppings and other foreign matter and sand paper smooth on new work to give an even shade. For all height	Sq.mt	111.83	112.95	15,766.45
23	SOR -2023/24, 19031+18032	199.19	Finishing wall with weather proof low velocity ultima exterior emulsion paint on wall surface (two coats) Including 2 coat primer and 2 Cost Putty (If required) on wall surface to give an required shape even shade after thoroughly brushing the surface to remove all dirt, and remains of loose powdered materials. Etc complete for all height	Sq.mt	146.79	148.26	29,531.49
24	SOR -2023/24, 5018	40.00	Providing throating or plaster drip and moulding to R.C.C. Chhajja.	Rmt.	41.25	41.66	1,666.50
25	SOR -2023/24, 17015	40.00	Providing cement vata (10cm. x 10 cm. size) quarter round in cement mortar 1:1 including neat cement finishing, watering etc. complete.	Rmt.	23.45	23.68	947.38
26	DSOR-2023. ITEM NO 26.86.3	34.65	Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid door/window/Ceostory windows & other Frames/Chowkhat comprising of virgin PVC polymer of K value 58- 60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/wheat husk) and non toxic additives (maximum oxicity index of 12 for 100 gms) fabricated with miter joints after star headed SS screws having minimum frame density of 750 kg/ cum, screw withdrawal strength of 2200 N (Face) & 1100 N (Edge), minimum compressive strength of 58 N/mm2, modulus of elasticity 900 N/mm2 and resistance to spread of flame of Class A category with property of being termite/borer proof, water/moisture proof and fire retardant and fixed in position with M.S hold fast/lugs/SS dash fasteners of required dia and length complete as per direction of Engineer-In- Charge. Note: For WPC solid door/window frames, minus 5mm tolerance in dimensions i.e depth and width of profile shall be acceptable. Variation in profile dimensions on plus side shall be acceptable but no extra payment on this account shall be made. applying PVC solvent cement and screwed with full body threadedComplete as per direction of Engineer-in-Charge. 1) Frame size 50 x 100 mm	Rmt.	803.14	811.17	28,107.09

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27	DSOR-2023. ITEM NO 26.87.1	11.03	*Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid plain flush door shutter of required size comprising of virgin polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) having minimum density of 650 kg/cum and screw withdrawal strength of 1800 N (Face) & 900 N (Edge), minimum compressive strength 50 N/mm <sup>2</sup> , modulus of elasticity 850 N/mm <sup>2</sup> and resistance to spread of flame of Class A category with property of being termite/ borer proof, water/moisture proof and fire retardant and including stainless steel butt hinges of required size with necessary full body threaded star headed counter sunk S.S screws, Handles, Stopper, Door closer, Tower bolt, Baby Latch & Mortise Lock all as per direction of Engineer-In- Charge, Material test certificate and authentication should be compulsory provided by the manufacturing company 1) 30 mm thick	Sq.mt	3683.64	3,720.48	41,036.85
28	SOR -2023/24, 10011	33.84	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with Aluminium frame well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters. 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws, Also Vision Panel for 6 mm Clear Glass with Polish bidding patti to fix it, all materials and labour etc. complete as per detail drawing and instruction of engineer-in charge and consultant.	Sq.mt	1779.97	1,797.77	60,836.53
29	SOR -2023/24, 11030	5.04	Providing and fixing standared extruded of alluminium section of size 63mm x 38.10mm x 1.2mm (Jindal Section: 2434, @Wt.0.643Kg/mt) withcolour anodized alluminium frame for ventilation with 5mm thick frosted glass as details etc complete for Ventilation	Sq.mt	1163.92	1,175.56	5,924.82
30	SOR -2023/24, 14020A	314.60	Providing and laying Glossy/matt/GVT 600 X 600 Full body/ Double charge vitrified floor tiles in different sizes having 3/4/5mm groove (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 upto 60 mm thick cement mortar 1:4 (1 cement : 4 coarse sand), including grouting the joints with white cement and matching pigments etc. complete. Colour and shade as approved by architect. All joints filled with epoxy grout.Rate includes of all tool, tackle, machinery, labor & floor protection system to protected floor by either floor protection sheet or Plaster of Paris work until hand over of building, all lead & lift & as per directed by EIC.	Sq.mt	1261.58	1,274.20	4,00,862.00
31	SOR -2023/24, 14021A	40.00	Providing & laying 600 X 600 Full Body vitrified 8mm thick tile flooring over Avg 40 mm thickness of base of cement mortar 1:6 (1cement : 6coarse sand) on new surface & jointed with color cement slurry including finished with flush pointing, Coner Eges with Katra & cleaning the surface etc. complete for antiskid	Sq.mt	1383.99	1,397.83	55,913.20
32	SOR -2023/24, 14036	137.59	Providing and laying Ceramic glazed / Matt Finish of the size 300 mm x 450 mm x 8 mm or approved size in skirting, risers of steps and dedo with construction adhesive in required propotion as per manufacturs specification.	Sq.mt	1426.95	1,441.22	1,98,297.39
33	RA	82.37	Providing and laying Granite slab (18 mm thick) one side Mirror polish, Acid Wash finish flooring, skirting, risers of steps, dado, Sill Jems cladding over 20 mm (average) base of cement mortar 1:6 (1cement : 6 coarse sand) or L.M 1:1.5 laid and jointed with grey cement slurry including rubbing and polishing complete as per drawing & directed by EIC/Architect. including making edge moulding & making grooves (any nos.) as per pattern of Architectural Drawing etc. complete as required	Sq.mt	2180.00	2,201.80	1,81,362.27
34	SOR -2023/24, 14012AA	169.60	Providing and laying average 20 mm thick mirror polished kotah stone of approved quality, selected and sorted for uniform colour in floor, otta, platform, etc. of required sizes upto 600 x 600 mm fix size ( No Variation) as per design in normal pattern (straight or staggered joint with square or rectangular shaped stone) and residue as per drawing including 1:6 (1 cement : 6 sand) cement mortar bedding of average 20 mm thickness jointed with grey cement and colour pigment in proportion to match the shade of kota stone. Rubbing and polishing to be done with 2 coats of 60, 120 grades of emery, balckchapadi and gutka for special polish after it polishing to be done with 220, 320, 400, 600 grades of emery till mirror finish is achieved. Curing, daily moping with water & kerosene as directed for at least 15 days after final polishing etc. complete upto the satisfaction of the Architect or Engineer-in-charge. (NO WAXING WILL BE PERMITTED).	Sq.mt	982.83	992.66	1,68,354.85
35	RA	4.86	Toilet : Urinal Partition _ Granite Providing and laying machine cut free edges machine double polished granite for urinal partition walls in single piece 18mm thick.ncluding cutting moulding in walls and fixing the stone with neat cement slurry in true line and level as directed etc. complete as per directed by EIC.	Sq.mt	2150.00	2,171.50	10,553.49
36	SOR -2023/24, 14033	50.00	Providing and fixing pre-cast Rubber Dye / steel Dye inter locking concrete block 60mm thick with grade of concrete M300 pnumatic compressed / vibrated mechanically and as per approved design Confirming to IS 15658 : 2006 including 35 mm Sand layer for levelling and filling the joint with sand in proper line and level as per guidlines of IRC : SP 63- 2018 etc. Complete.	Sq.mt	680.10	686.90	34,345.05
37	SOR -2023/24, 14032	162.00	Providing and fixing pre-cast concrete kerb stone of gray cement based concrete block 30cm length,30cm height and 15cm thick of M250 grade concret as per approved design and including excavation for fixing in proper line and level,filling the joint with C:M 1:3 (1cement:3fine sand) etc complete.	Rmt.	358.06	361.64	58,585.78

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38	SOR -2023/24, 20054	14861.11	Providing, fabricating, assembling, hoisting/ erecting and fixing in position at any heights/ any levels/ all shapes & sizes with all leads & lifts using MS Rolled Steel Sections, Hollow sections, Tubular Sections, MS Plates, Chequered Plates, MS Pipes, Perforated Sheet, Flats, Bright Bars, Angles, MS Sheet, Girder, Beam. threaded J bolts, insert plate, support plate etc as per drawing. all confirming to latest relevant IS codes for the work of steel structures like staircases, railings, handrail, jali, gates, grills, bracings, platforms, brackets, monkey ladder, cattle trap, grill door, pipe rack, rungs, false ceiling frame work, framing for facade, Roof canopy, fencing posts, M.S. Screen & fencing jali frame work etc. including straightening, cutting, bending, bolting and welding the members all as per structural drawings and as per detailed specifications (for materials & workmanship) including necessary scaffolding/ staging etc. complete in the situations described hereinafter and comprising of : i) Profile Cutting of components to required length/ width and shape/profile; ii) Smooth grinding/ machining of edges/ faces/ all welding joints; iii) Necessary welding (electric arc welding) for required weld lengths and sizes. Fabrication shall be in a perfect architectural workmanship manner and as provided in section V & VI of IS 800 & IS 7215. Welding shall be carried out by qualified welders/ fabricators. The procedure, selection, test and inspection shall confirm to provisions in IS 816, IS 818, IS 822, & IS 823. Erection/ hoisting shall commence only after passing of fabricated parts by Architect/ Engineer. Rate shall be inclusive of cutting, wastage, welding, bending (shop at site), bolting wherever necessary, grinding, finishing edges, filling & finishing the welded spots & gaps with "Bombay Masala" & "Steel Putty" etc. complete. It should also include the cost of necessary scaffolding/ staging, zinc coated nut-bolt as required for safety, anchor fastener of approved make ( Hilti Fisher or equivalent) structural stability of all works at site and for fixing with RCC element. Including, Providing and applying minimum two coats of enamel paint (2 coats of zinc chromate yellow primer and 2 coats of enamel	Kg.	126.68	127.95	19,01,431.47
39	DSR-2023/24, 12.50	285.46	Providing and fixing pre-coated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-Charge) of total coated thickness 0.50mm (base metal of minimum 0.45mm thickness with total coating thickness of 0.05mm) 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 Engineer-in-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 wherever required.	Sq.mt	738.65	746.04	2,12,963.58
40	DSR-2023/24, 12.51.6	114.20	Providing and fixing pre-coated galvanised steel sheet roofing accessories of total coated thickness 0.50mm (base metal of minimum 0.45mm thickness with total coating thickness of 0.05mm) 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 using self drilling/ self tapping screws complete : Gutter (600 mm over all girth)	Rmt.	1313.70	1,326.84	1,51,524.79
41	RA	4.00	wall - mounted magnetic whiteboards - Providing and placing on wall - mounted magnetic whiteboards including centre H channel with aluminium anodized frame in width of 5/8" the dry erase boards shall be of thickness 1/2", life time guranted non staining dry erase surface. and shall be permanent marker resistant. smooth & glossy surface permits easy writing and erasing. and easy to fix on wall with concealed hook. fixing screw and anchor plugs. approved model and make, Item to include all fixing accessories, all material and lift to 20 mts., including keeping in packaged condition till handover, cleaned complete. complete and all as per manufacturer's specification and as directed by the EIC / Architect. wall - mounted magnetic whiteboards size: 4' x 6'	Nos.	18000.00	18,180.00	72,720.00
42	RA	640.00	50mm Thick Insulated Wall Panel : Providing and fixing PUF Insulated continuous sandwich panels (Supply of Kingspan Jindal/ Suchi Foam Make) for walls of total thickness not less than 50 mm and width 1.0 m made out from continue line method on automatic plant.Panel shall have 0.5 mm thick pre coated GI sheet on both side of Polyurethane Foam confirming to IS 12436:1988.The Precoated sheet shall be of minimum 240 mpa steel grade confirming to IS 14246:1995 and shall have zinc coating of minimum 120 gsm as per IS:277:1992, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 micron.The PPGI Sheet shall have plastic protective guard film of minimum 25 microns to avoid scratches during trasportation.The panels shall be vertically joined together by tongue and groove joints. The PU Foam shall be self-extinguishing, fire retardant type having minimum density of 40 Kg/Cu.mt.( +, - 2 Kgs) including 0.25 mm thick craft paper edging on both edges. The panels shall be fixed to the steel frame structure with minimum 5mm thick self tapping GI screws of required length and nos. with minimum spacing of 300 mm c/c. and including 'Wall Ancillaries like 'C' Chanel, 'F' Chanel, 'L' Angle etc to be made from 0.9mm thick GI Sheet duly powder coated from both side.	Sq.Mt	3477.60	3,512.38	22,47,920.64
43	RA	615.00	50 mm Thick. Insulated Roof Sheet: Providing and fixing PUF Insulated continuous sandwich panels (Supply of Kingspan Jindal/ Suchi Foam Make) for roofs of total thickness not less than 50 mm made out from continue line method.Panel shall have 0.35 mm thick pre coated GI sheet on both side of Polyurethane foam with external face being corrugated in shape for GI and PU foam both material.The crest height of the panel shall be of 35mm minimum whith 250mm c/c pitch. The Precoated sheet shall be of minimum 240 mpa steel grade confirming to IS 14246:1995 and shall have zinc coating of 120 gsm as per IS:277, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 micron.The PPGI Sheet shall have protective guard film of minimum 25 microns to avoid scratches while trasportation.The roof panels are laid over a frame work of trusses, columns and purlins fixed using 90mm self drilling bolt with rubber washer including all types of flashings. PU Foam must be self-extinguishing, fire retardant type having minimum density of 40 Kg/Cu.mt.( +, - 2 Kgs) including 0.25mm craft paper edging,self tapping screws of required length and nos. Including 'Roof Ancillaries like End Cap, Rake Trim, External Crimped Ridge, Internal Ridge etc to be made from 0.5mm thick GL Sheet duly powder coated from both side etc. complete as per structural design and direction of Engineer-in-charge.	Sq.Mt	3726.00	3,763.26	23,14,404.90

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44	DSR 23-24/21.1.1.3	728.64	Providing and fixing of Anodised Aluminium (Matt finish) frame work (Horizontal and verticals , Styles and rails, ball bearing) for Doors/ window/ventilation/alluminum partition with required Domal or Equivalent Heavy sections including fixing all items and hinged / pivoted arrangements for operation of shutters and labour cost for fixing of door fittings and locks including all items and contingencies described above complete (Aluminium beadings and glazing clips & section measured under this item only) NOTE : All fitting works shall be carried out as per I.S. specifications including cost of necessary rivets, screws, lugs, scaffolding, rubber gaskets etc., complete all generally as per drawings. The sizes of the components should confirm as per details in drawings. Providing and fixing at all heights / in all floors with all leads. Colour Anodised Aluminium doors / windows / partitions manufactured from best extruded Aluminium sections conforming to ISI cut to length, joints mitred and corners grinded with joints water proof the outer frame and shutter frame stiffened with corner angle and strips provided for in the frame for fixing the frame to R.C.C Columns / masonry/Granite Frame on sides, R.C.C lintels/Granite Frame on top and P.C.C sills or floor at bottom, the frame work fixed with standard approved fastenings all generally as per details shown in drawings and specification with all the sections pretreated for removal of any rust & scales and prevention of further rust/scale formation and coated with greasy materials for non-adherence of mortar or any other sticky materials and this coat to be removed after installations 1)Sheet metal screws, wool pile and aluminium angle corner cleat of required thickness and of full width, etc. for assembling the frame and shutter; 2)Glazing clips for receiving infill panel for Double Glazed Unit (DGU), any type of Glass, Compact Sheet, Louvers; 3) Best quality wool pile where ever shutter touches the frame; 4) Anchor fasteners for fixing the frame assembly to the RCC or Granite or masonry surfaces etc. complete. Note:-As per drawings and design supplied by architect and instruction given by authority	Kg.	539.85	545.25	3,97,289.87
45	RA	60.72	Providing and fixing Clear Float Glass of any size, any shape and specified thickness and SHGC value 86 % in frame and shutter work with necessary cutting of glass as per drawing & specifications including providing and fixing EPDM quality rubber/silicon sealant/structural sealant of 3M tape on the periphery of the glass as per the required thickness etc. complete a tall floors/alllevels/all heights as per the directions of Architect. Actual installed quantity shall be measured and paid. Rate shall be inclusive of all type of wastage. (a) 6 mm thick	Sq.Mt	925.00	934.25	56,727.66
46	SOR 23-24/Item No.10025BA	607.20	Providing and fixing M.S. grill of required pattern top wooden frames of windows etc. with M.S.. flats with MS Round & Square Bar at required spacing and frame around square or round headed bolts and nuts or by screws.including applying a priming coat of red lead paint and two coats of oil painting etc complete (A)Plain grill	kg	143.64	145.08	88,090.39
47	RA	1782.00	Providing, Fabricating & Fixing signage's using 304 grade Stainless steel 1.5 mm thick brushed steel finish plate (2 nos) with 8mm thk. Acrylic sheet covered with vinyl of approved colour, sandwiched between two S.S plate and fixed with s.s struds . Sandwiched plates should be fixed in 12mm X 12mm S.S 1.5mm thk.304 grade frame and punched (laser cut) lettering carried out on both the s.s plates of required size and text as directed by Engineer and hanged to ceiling with the help of S.S 8mm thick chain at both ends with making all the fixing arrangement to the ceiling and to the plate etc. complete as directed by Engineer-in-charge.	Sq.inch	69.00	69.69	1,24,187.58
48	SOR 23-24/Item No.23061	22.50	Providing laying and jointing in true line and level 15 mm dia. U.P.V.C. Pipe (SCH -40) line including fittings of standard make as approved by Engineer In charge. Pipe shall be fixed on the wall with the help of clamp at every two meter C/C or shall be concealed as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.	Rmt.	71.93	72.65	1,634.61
49	SOR 23-24/Item No.23062	33.00	Providing laying and jointing in true line and level 25 mm dia. U.P.V.C. Pipe (SCH -40) line including fittings of standard make as approved by Engineer In charge. Pipe shall be fixed on the wall with the help of clamp at every two meter C/C or shall be concealed as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.	Rmt.	90.93	91.84	3,030.70
50	SOR 23-24/Item No.23063	69.50	Providing laying and jointing in true line and level 32mm dia.U.P.V.C. Pipe ( SCH- 40) for cold water including fittings as approved by Engineer In Charge. Pipe shall be fixed on the wall with the help of clamp at every two metre C/C or shall be concealed as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.	Rmt.	117.97	119.15	8,280.90
51	SOR 23-24/Item No.23064	35.00	Providing laying and jointing in true line and level 40 mm dia. U.P.V.C. Pipe (SCH -40) line including fittings of standard make as approved by Engineer In charge. Pipe shall be fixed on the wall with the help of clamp at every two meter C/C or shall be concealed as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.	Rmt.	146.65	148.12	5,184.08
52	SOR 23-24/Item No.23065	25.00	Providing laying and jointing in true line and level 50 mm dia. U.P.V.C. Pipe (SCH -40) line including fittings of standard make as approved by Engineer In charge. Pipe shall be fixed on the wall with the help of clamp at every two meter C/C or shall be concealed as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.	Rmt.	193.73	195.67	4,891.68
53	SOR 23-24/Item No.M450	20.00	Providing and fixing P.V.C. Pipes 6 kg. / Sq.cm. 50mm dia. Pipes in position for Drainage.	Rmt.	97.63	98.61	1,972.13
54	SOR 23-24/Item No.M451	18.00	Providing and fixing P.V.C. Pipes 6 kg. / Sq.cm. 75mm dia.Pipes in position for Drainage.	Rmt.	149.32	150.81	2,714.64
55	SOR 23-24/Item No.M449	25.00	Providing and fixing P.V.C. Pipes 6 kg. / Sq.cm. 100mm dia.Pipes in position for Drainage.	Rmt.	247.63	250.11	6,252.66

Sr. No.	Rate Reference	Estimated Quantity	Discription	Unit	S.O.R :2023-24 RATE	Rate with 1% labour cess	Total Amount
56	SOR 23-24/Item No.23.99 ,code:23031C,P	2.00	Providing and fixing Gun metal check or non-return full way wheel valve.(C) 25mm dia.	Each.	416.47	420.63	841.27
57	SOR 23-24/Item No.23.99 , code:23031E,P	3.00	Providing and fixing Gun metal check or non-return full way wheel valve.(E) 40mm dia.	Each.	656.86	663.43	1,990.29
58	RA	2.00	Providing and fixing Gun metal check or non-return full way wheel valve.(E) 50mm dia.	Each.	1075.09	1,085.84	2,171.68
59	RA	7.00	Providing and fixing screw down Two way bib taps of following size.(A) Brass screw down bib tap polished bright. (i) 15mm diazo Jaquar Make	Each.	750.00	757.50	5,302.50
60	SOR 23-24/ 23028A1,	7.00	Providing and fixing screw down bib taps of following size.(A) Brass screw down bib tap polished bright. (i) 15mm diazo Jaquar Make	Each.	184.98	186.83	1,307.81
61	RA	17.00	Providing & Fixing C.P.Brass angle valve 15mm etc. complete.	Each.	586.00	591.86	10,061.62
62	SSOR 23-24/ 23018,	6.00	Provdg. & fixing wash basin with wall mounted pedestal with single hole for pillar tap with C.I. or M.S. brackets painted white incl. setting holes and making good the same including C.P. brass waste, M.I.fisher union & brass screw down stop tap & pillar tap etc. including BRass Wastecoupling and bottle trap complete.(A) Vitreous China : (1) Wash basin 550 mm x 400 mm size	Each.	2381.16	2,404.97	14,429.83
63	SSOR 23-24/ 23029A,	6.00	Providing and fixing pillar tap, capstan head, screw down high pressure with screws, shanks and back nuts. (i) 15mm dia.	Each.	305.67	308.73	1,852.36
64	SSOR 23-24/ 23034,	8.00	Providing and fixing Urinal of approved quality including connection with trap and with integral longitudinal flush pipe. Including Providing and fixing brass angle cock / pressomatic tap rate included waste coupling and bottle trap.(A) 15mm dia.(A) Squatting plate pattern white earthenware 550mm x 300mm.	Each.	3637.48	3,673.85	29,390.84
65	SSOR 23-24/ 23010,	7.00	Providing and fixing wash down water closet with flushtank (European type W C pan) with integral P and S trap including jointing the trap with soil pipe in cement mortar 1:1 ( 1 cement fine sand) including Providing and fixing Soft close Plastic Seat and cover for wash down water closet with C.P. brass hinges and rubber buffers and also includes provide and fixing jet wash Facilities complete (A)Vitreous China Pattern: (i) in White Colour	Each.	2442.72	2,467.15	17,270.03
66	SSOR 23-24/ 23009,	1.00	Providing and fixing water closet squatting Pan (Indian type W.C. Pan) size 580mm (Earthwork, bed concrete, foot rest and trap to be measured and paid for separately) (A) Vitreous China.(i) Long pattern = White colour	Each.	926.10	935.36	935.36
67	SSOR 23-24/ 23024,	7.00	Providing and fixing 600mm x 450mm bevelled edge mirror of superior glass mounted on 6mm thick A.C. sheet or plywood sheet and fixing to wooden plug with C.P. brass screws and washers.	Each.	825.48	833.73	5,836.14
68	SOR 23-24/ 23067,	5.00	Providing and fixing Approved SWR quality, heavy duty, uPVC pipes - Type B Ring Fit & Self Fit, Supreme or equivalent make, Confirming to IS 13592 & Fitting confirming to IS 14735 for waste water or soil waste pipe, with necessary specials, bends, such as 'Y' junction, 'T' junction (both single and double), including plugs, shoes, cowls, flange compression type fittings, wall clips, in proper line and level with necessary support like brackets/clamps, clips, RCC or brick pedestals or battens, if necessary, to wall, ceiling and floor, open or concealed complete jointing with rubberising and airtight joints, with 'T' shaped rubber ring, etc., and lubricant or jointing material, including testing, cutting, making good the wall, ceiling and floor, etc. Testing & installation of pipe lines as per drawing & specification. (a) 110 mm Dia pipe	Rmt.	826.88	835.15	4,175.74
69	SOR 23-24/ 23066,	5.00	(b) 160 mm Dia pipe	Rmt.	822.99	831.22	4,156.10
70	SOR 23-24/ 23068,	8.00	Providing and fixing PVC SWR Nahni trap IS 14735 for drain - 100 mm diameter with jali of the following nominal diameter of self cleansing design with C.I sread down or hinged grating including the cost of cutting and making good the walls.	Each.	565.43	571.08	4,568.67
71	RA	7.00	Providing & Fixing health faucet with 8 mm dia 1 mtr long flexible tube and wall hook (Jaquar catlog ALD-573) as per eic instruction.	Each.	950.00	959.50	6,716.50
72	RA	7.00	Providing and fixing chromium plated brass half turn flush cock of approved quality Jaquar make including fixing in pipe line etc. complete.(ii) 25mm dia.	Each.	850.00	858.50	6,009.50
73	RA	7.00	Providing & fixing C.P. brass towel ring fixed to rawl plug with C.P. brass screws.	Each.	1122.00	1,133.22	7,932.54
74	RA	7.00	Providing & fixing of Superior quality of approved type of design cp of Tissue paper holder with complete fittings.	Each.	1324.00	1,337.24	9,360.68
75	RA	6.00	Fixing stainless steel recessed type soap dish of approved make. Including providing & fixing screws, washers, cutting & making good the walls.	Each.	750.00	757.50	4,545.00
76	SOR 23-24/ 23006C,	3.00	Providing and fixing UPVC SWR Pipes in position for cowl vent 100mm dia.	Each.	496.90	501.87	1,505.61
77	RA	55.00	Providing and fixing ECO Drain / Foam core Pipes in including supporting the ECO Drain pipe on the bricks at each joint including leakproof joints ECO Drain Pipe etc., complete 150 mm dia.pipe	Rmt.	1210.00	1,222.10	67,215.50

Sr. No.	Rate Reference	Estimated Quantity	Discription	Unit	S.O.R :2023-24 RATE	Rate with 1% labour cess	Total Amount
78	SOR 23-24/ 24016A,	2.00	Constructing brick masonry chamber for underground C.I. Inspection chamber and bends with bricks having crushing strength not less than 35Kg. Cm2 in C.M. 1:5 455mm x 610mm internal dimensions (R.C.C. top slab with 1:2:4 mix (1-cement :2- coarse sand :4-graded stone aggregate 20mm size) foundation concrete 1:5:10 inside plaster 15mm thick with cement mortar 1:3 finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete. Cover Should be paid Separately as per other item(i) Inside dimensions 455mmx 610mm and 450mm deep for single pipe line	Each.	2903.89	2,932.93	5,865.86
79	SOR 23-24/ 24008A,	1.00	Constructing manhole with RCC top slab in 1:2:4 mix (1 cement:2 coarse and :4 graded stone aggregate 20 mm nominal size ) foundation concrete 1:3:6 mix (1 cement :3 coarse sand : 6 brick bats 40 + 50 mm size) inside plastering 15mm th.with cement mortar 1:5 (1 cement :5 coarse sand ) finished with a floating coast of neat cement and making channel in cement concrete 1:2:4 mix (1 cement: 2 Coarse sand :4stone aggregate 20mm nominal size) inside size 900 mm x1200 mm & 1,5 m deep Cover Should be paid Separately as per other item (1)A-type depth 0.90 m for 150 mm,250(required dia) sewer or Storm Water Drain	Each.	10920.76	11,029.97	11,029.97
80	SOR 23-24/ 24009B,	3.00	Extra rate for constructing B.B masonry for every additional depth 0.10 meteror part there of over item24.27(II) for depth from 1.50 meter to 2.25 meter.	Each.	393.26	397.19	1,191.58
81	SOR 23-24/ 24006AA,	3.00	Providing and fixing S.W. gully trap with C.I. grating brick masonry chamber and water tight C.I. cover with frame of 300mm x 300mm size (inside) with standard weight.(i) Square mouth traps. (A) 100mm x 100mm size P type.	Each.	1279.40	1,292.19	3,876.58
82	SOR 23-24/ 22014,	5000.00	Providing erecting and fixing double coated ISIwater tank of required capacity each with all necessary fittings and connection etc. complete on terrace	Litre.	3.91	3.95	19,745.50
83	SOR 23-24/ 14015BA,	40.00	Providing and laying cement concrete flooring 1:2:4 (1-cement : 2-coarse sand : 4-graded stone aggregate 20mm nominal size) laid in one layer and finished with a floating coat of neat cement. (B) 50mm to 65mm thick.	Sq. Mt	348.08	351.56	14,062.43
84	RA	230.00	FABRICATION CHAIN LINK FENCING: Providing, fabricating and fixing of Chain- Link Fencing using GI wire mesh size 50x50 mm of 3.15mm thick wire for fencing up to 2500mm height including fabricating, welding, tying with MS section angle frame and bracing of flat at equal spacing all complete as per approved drawing and directions of Engineer-in-charge. Fabricated fencing shall install on RCC foundation / Floor as per detail Drg / specification. Work shall include necessary excavation, PCC, RCC footing, shuttering, fabrication, anchor fastening, fixing specified steel section pillars in foundation. Fabricated MS fencing shall finish with two coats 50 micron DFT for each Coat of synthetic enamel paint over a coat of 50 micron DFT for Zinc chromate primer complete as per specification and drawing. Rate shall include cost of labour, tools, tackles, equipments, material etc. with fencing gate as per detailed drawing.	Sq.Mt	2350.00	2,373.50	5,45,905.00
85	RA	307.00	Supply of Ground covers / creepers - well developed, min. 0.15m high, in polybag of 5"x7" size, disease free. All groundcover species shall be evenly balanced to allow equal growth in all directions. Plants shall have fully developed roots and leaves. Rooted cuttings will not be accepted. All plants to be container grown. Supply shall include labour & equipment cost of loading, unloading, transport to site, storage & stacking within site in area protected from dust using temporary agronet, watering & maintenance at stacking area until planted as directed by EIC	Nos.	102.00	103.02	31,627.14
86	16006	268.40	Providing and fixing eco-friendly light weight calcium silicate false ceiling tiles having Tegular edge & 15 mm Thick Densified edges on the Tile Periphery for Extra Strength The Light weight calcium silicate ceiling tiles shall have , light reflection 85% non-combustible as per B.S. 476 part IV, 100% humidity resistance and also having thermal conductivity0.043' w/m KC.for the best thermal Insulation . The Light weight calcium Silicate tile shall be of approved texture Fine fissured/ Spintone/Cosmos / Plain with water based paint Globe having NRC value of 0.75 NRC or equivalent of size 595 X 595 mm to be laid on true horizontal level suspended inter locking metal grid of hot dipped galvanized steel sections (galvanizing @120 grams per sqm including both side) consisting of main 'T' runner suitably spaced at joints to get required length and size of 24X38mm made from 0.30 mm thick (minimum) sheet, 1200mm centre to centre, and cross 'T' of size 24X28mm made out of 0.33mm (Minimum) sheet spaced 1200mm along spaced between main 'T' at 600mm centre to centre to form agrid of 1200X600mm and secondary cross 'T' of length 600mm and size 24x28mm made of 0.30 mm thick (Minimum) sheet to be interlocked at middle of the 1200X600mm panel to form grid of size 600X600mm resting on periphery walls/partitions on a perimeter wall angle pre-coated steel of size (24X24X3000mm made of 0.40mm thick (minimum) sheet with the help of rawl plugs at 450mm centre to centre with 25mm long dry wall screws @ 230mm interval and laying 15mm thick Densified edges light weight calcium silicate ceiling tiles of approved texture (Fine Fissured/Cosmos/Spintone / Plain) in the grid including, cutting /making opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc., wherever required, Main 'T' runners to be suspended from ceiling using G.I. slotted cleats of size 25X35X1.6mm fixed to ceiling with 12.5mm dia and 50mm long dash fasteners, 4mm G.I. adjustable rods with galvanized steel level clips of size 85X30X0.8mm, spaced at 1200mm centre to centre long main 'T' bottom exposed with 24mm of all T-sections shall be pre-painted with	Sq. Mt	1632.63	1,648.96	4,42,579.87

Sr. No.	Rate Reference	Estimated Quantity	Discription	Unit	S.O.R :2023-24 RATE	Rate with 1% labour cess	Total Amount
87	16007	80.52	Providing and fixing Water proof gypsum board false ceiling consists at G.I perimeter channels of size 0.55 thick having one flange of 20 mm and another flange of 30 mm and web of 27 mm along with perimeter of ceiling, screws fixed to brick work / concrete / partition with help of nylon sleeves and screws at 610 mm centre. The suspending G.I. intermediate channels of size 45 mm (0.9 mm thick with 2 flangs at 15mm each from the soffit at 1220 mm centre with ceiling angles of width 25mm x 10mm x 0.5 mm thick fixed to soffit with G. I cleat and steel expansion fastners ceiling section of .55 thick having kurlid web 51.5 mm and 2 flangs at 26 mm each with lip at 10.5 mm are fixed to intermediate channel with help of connecting clips and in direction perpendicular to the intermediate channel at 450mm centre to centre including 12.5 mm tapered edge Gyp board conforming to IS 2095 – 1982 is then screw fixed to ceiling section with 25mm dry wall screws of approved quality and make at 230mm centre, screw fixing is done mechanically with drilling machine with suitable attachment. Finally tapered edges at the cupboard are to be joint and finished so as to have a flush look which includes filling and finishing with jointing compound, paper tape etc. complete. Rate to be included all kinds of profiles, upright , periphery Borders of Other ceiling, curves, cutouts required for light fixtures, speakers, sprinklers, smoke detectors, trap doors, A.C. grill, diffuser etc including additional support if required of duct portion, marking grid on ceiling, including all drops, offsets, curvature small moulding and in desired geometrical pattern, including 2 coats of primer, plaster putty and minimum 3 coats of plastic Emulsion paint as per manufactures specification, scaffolding. (Same Rate should apply for upto 300 mm Wide Gypsum ceiling Patta)	Sq. Mt	600.94	606.95	48,871.57
88	1-2-1.	45	<b>INTERNAL POINT WIRING</b> Point wiring for Light / Bell with 2-1.5 sq.mm & earth wire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires up to 10 mtr length , in below type of pipe erected with 6A Modular type switch / bell push & accessories and earth continuity of following type, erected on PVC / Metallic/Wooden box, single mounting base frame covered with textured/metallic/white front plate modules erected on / in wall / ceiling as per pipe erected, with necessary Lamp holder/ceiling rose / H.D.Connector as directed. (f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete - Cat. III	Ea.	445.00	449.45	20,225.25
89	1-1-4.	150	Point wiring for Tissino / Modular secondary light point with 2-1.5 sq.mm & earth wire of 1.5 sq.mm (green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires, in below type of pipe to be erected complete with earth continuity and necessary connection with primary light with accessories erected on Metal / PVC / wooden box covered with 3 mm thick PC(Polycarbonate) / Acrylic sheet for open / concealed wiring. with necessary Lamp holder / ceiling rose / H.D.Connector as directed. (f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete	Ea.	150.00	151.50	22,725.00
90	1-2-4.	6	Point wiring for on board Looped Plug with 6A Modular type switch & 5 pin socket erected on PVC / Metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate modules erected on / in wall / ceiling with following type accessories Cat. III	PT.	239.00	241.39	1,448.34
91	1-6-2.(B)	4	Providing & erecting Switch board for Computer or electric apparatus consisting of following modular type accessories mounted with PVC / Metallic concealed/open box with single mounting base frame covered with textured/metallic /white front plate,modules erected with necessary connections as directed 1 no. 6A/16A universal plug-switch combined. 3 nos. 6A Switch 3 nos. 6A 5 pin Plug For Modular Type Accessories Cat. III	PT.	1071.00	1,081.71	4,326.84
92	1-2-3.	50	Point wiring for Individual Plug with & earth wire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires up to 10 mtr length, in below type of pipe erected complete with Modular type switch & 5 pin Plug erected on PVC / Metallic/Wooden box covered with appropriate front plate modules erected on / in wall / ceiling as per pipe erected with following type of accessories. [I] For 6A Plug and 6 a switch with 2-1.5 sq.mm Cu. Wire from nearby switchboard/mcb db board (f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete Cat. III	PT.	469.00	473.69	23,684.50
93	1-2-3.	15	Point wiring for Individual Plug with & earth wire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires up to 10 mtr length, in below type of pipe erected complete with Modular type switch & 5 pin Plug erected on PVC / Metallic/Wooden box covered with appropriate front plate modules erected on / in wall / ceiling as per pipe erected with following type of accessories. [II] For 16A Plug and 16 amp switch with 2-2.5 sq.mm Cu. Wire from mcb db board. (f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete Cat. III	PT.	691.00	697.91	10,468.65



Sr. No.	Rate Reference	Estimated Quantity	Discription	Unit	S.O.R :2023-24 RATE	Rate with 1% labour cess	Total Amount
94	1-2-3.	12	Point wiring for Individual Plug with & earth wire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires up to 10 mtr length, in below type of pipe erected complete with Modular type switch & 5 pin Plug erected on PVC / Metallic/Wooden box covered with appropriate front plate modules erected on / in wall / ceiling as per pipe erected with following type of accessories. [III] For 16A Plug and 16 amp switch with 2-4 sq.mm Cu. Wire with 2.5 sq.mm ( green) earthing wire from mcb d b board. (f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete Cat. III	PT.	782.00	789.82	9,477.84
95	1-2-6.	10	Providing following type of Modular Type Accessories mounted with PVC / metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate , modules erected with necessary connections as per site situation directed by Engineer In charge.vvv (1)One No. SP 6 Amp. Cat.III	Ea.	143.00	144.43	1,444.30
96	1-2-6.	10	Providing following type of Modular Type Accessories mounted with PVC / metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate , modules erected with necessary connections as per site situation directed by Engineer In charge.vvv (2) One No 5 pin plug Cat.III	Ea.	143.00	144.43	1,444.30
97	1-2-6.	20	Providing following type of Modular Type Accessories mounted with PVC / metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate , modules erected with necessary connections as per site situation directed by Engineer In charge.vvv (9) 16 Amp. SP one way switch Cat.III	Ea.	171.00	172.71	3,454.20
98	1-2-6.	20	Providing following type of Modular Type Accessories mounted with PVC / metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate , modules erected with necessary connections as per site situation directed by Engineer In charge.vvv (10) 6/16Amp. Universal socket Cat.III	Ea.	189.00	190.89	3,817.80
99	1-2-6.	20	Providing following type of Modular Type Accessories mounted with PVC / metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate , modules erected with necessary connections as per site situation directed by Engineer In charge. (7) Blank Plate Single Cat-III	Ea.	24.00	24.24	484.80
100	3-10-1(B).	50	<b>MINIATURE CIRCUIT BREAKER</b> providing and erecting Miniature circuit breaker single pole 6A to 25A suitable to operate on 240 V A.C. system and having breaking capacity 10 KA to be erected in existing box. conforming to IS 8828/1996 with ISI Mark Cat.III	EA	111.00	112.11	5,605.50
101	3-10-5.	2	Providing & erecting 415 V MCB Four Pole for Motor & Inductive Load (C Curve) having 10KA breaking capacity & confirms to IS :8828 in existing box having following capacity (b)40 Amp. Cat.III	EA	662.00	668.62	1,337.24
102	3-10-5.	2	Providing & erecting 415 V MCB Four Pole for Motor & Inductive Load (C Curve) having 10KA breaking capacity & confirms to IS :8828 in existing box having following capacity (c)63 Amp. Cat.III	EA	730.00	737.30	1,474.60
103	3-12-1.	7	<b>RCCB</b> Providing and erecting Approved make RCCBs conforming to IS: 12640 and having sensitivity of 30 mA and Short Circuit withstand capacity of 10 KA and suitable for operation on single phase 240 V,50Hz. having characteristic of quick action & tripping with all advance feature & do not incorporate any electronic component. for following Max. rating erected as directed (ii) 40Amps. DP Cat. III	EA	2213.00	2,235.13	15,645.91
104	3-11-5.	1	Providing and erecting Sheet Steel powder coated MCB distribution board - flush / surface mounted fitted with busbar, neutral link, earth bar and DIN rail, Conforms to IS 8623-1 & 3, IEC 61439-1 & 3 without MCB to house appropriate nos. of MCBs.(The DBs should be used of same company of MCB to be used) suitable for (A) single phase incoming and horizontal single phase outgoing (b) sheet steel double door (IP-43) (iv)12 way	EA	1478.00	1,492.78	1,492.78
105	3-11-5.	2	Providing and erecting Sheet Steel powder coated MCB distribution board - flush / surface mounted fitted with busbar, neutral link, earth bar and DIN rail, Conforms to IS 8623-1 & 3, IEC 61439-1 & 3 without MCB to house appropriate nos. of MCBs.(The DBs should be used of same company of MCB to be used) suitable for (B) three phase incoming and single phase horizontal type outgoing Per phase isolation type (PPI) (b) sheet steel double door (iii)8 way	EA	3379.00	3,412.79	6,825.58

Sr. No.	Rate Reference	Estimated Quantity	Discription	Unit	S.O.R :2023-24 RATE	Rate with 1% labour cess	Total Amount
106	1-3-2.	300	<b>CONDUIT</b> Providing and erecting ISI mark Medium class RIGID PVC PIPES of following size complete to be erected on/in wall or ceiling erected with necessary PVC fittings & Junction boxes fixed with adhesive solution & Clamps with following dia of pipes, in approved manner as directed. (b) 25 mm	mtr.	32.00	32.32	9,696.00
107	1-3-2.	100	Providing and erecting ISI mark Medium class RIGID PVC PIPES of following size complete to be erected on/in wall or ceiling erected with necessary PVC fittings & Junction boxes fixed with adhesive solution & Clamps with following dia of pipes, in approved manner as directed. (c) 32 mm	mtr.	52.00	52.52	5,252.00
108	1-3-4.	150	Providing & erecting PVC Corrugated Flexible Conduit with required nos. of coupling, PVC bushes, Check-nuts etc. complete of following sizes. (1) 20 mm	mtr.	16.00	16.16	2,424.00
109	1-3-4.	150	Providing & erecting PVC Corrugated Flexible Conduit with required nos. of coupling, PVC bushes, Check-nuts etc. complete of following sizes. (2) 25 mm	mtr.	20.00	20.20	3,030.00
110	1-3-6.	250	<b>CABLE TRUNKING</b> Supplying and laying UPVC cable trunking system comprising unplasticised polyvinyl, chloride rigid material with ignition free and flame proof confirming BS with necessary end caps Internal and external bend, flat bends, coupler, tee etc..All necessary accessories and measuring of following sizes (1) 75 mm x 50 mm trunking	mtr.	263.00	265.63	66,407.50
111	1-4-1.	200	<b>WIRE MAINS</b> Providing and erecting Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected concealed in /flushed on wall/ceiling, with 1.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size (A) with medium class Rigid PVC pipe and accessories (a) 2 wire 1.5 sq. mm	mtr.	59.00	59.59	11,918.00
112	1-4-1.	350	Providing and erecting Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected concealed in /flushed on wall/ceiling, with 1.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size (A) with medium class Rigid PVC pipe and accessories (b) 2 wire 2.5 sq. mm	mtr.	78.00	78.78	27,573.00
113	1-4-2.	750	Providing and erecting Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected in / on wall / ceiling with 2.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size (a) with medium class Rigid PVC pipe and accessories. (a) 2 wire 4 sq. mm	Rmt.	106.00	107.06	80,295.00
114	1-4-2.	350	providing and erecting Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected in / on wall / ceiling with 2.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size (a) with medium class Rigid PVC pipe and accessories. (b) 2 wire 6 sq. mm	Rmt.	139.00	140.39	49,136.50
115	4-3-5.	170	<b>ARMOURED ALLUMINIUM CABLES.</b> Providing and erecting XLPE (IS:7098)(I)-88 ISI armoured cable multistrand Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables (A) 4 core 16 Sq. mm	Mtr.	150.00	151.50	25,755.00
116	4-3-2.	120	Providing and erecting XLPE(IS:7098)(I)-88 ISI armoured cable multistrand Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables. (D) 3 core 10 Sq. mm	Mtr.	128.00	129.28	15,513.60
117	4-6-1.	4	<b>CABLE GLANDS.</b> Providing and, fixing heavy duty flange type brass cable gland with rubber ring for PVC insulated armoured cable complete with out going tails, insulating tape etc for following size of cables. (D) 2 to 4 core 16 Sq. mm	Ea.	47.00	47.47	189.88
118	4-6-1.	2	Providing and, fixing heavy duty flange type brass cable gland with rubber ring for PVC insulated armoured cable complete with out going tails, insulating tape etc for following size of cables. (C) 2 to 4 core 10 Sq. mm	Ea.	38.00	38.38	76.76
119	4-7-1.	8	<b>CABLE LUGS.</b> Solder less crimping type Aluminium lugs conforming to IS suitable for cable of following size evenly crimped with high pressure tool & connected to switchgear terminals with brass/cadmium plated nut bolts in an approved manner. (B) 10 Sq.mm	Ea.	13.00	13.13	105.04
120	4-7-1.	16	Solder less crimping type Aluminium lugs conforming to IS suitable for cable of following size evenly crimped with high pressure tool & connected to switchgear terminals with brass/cadmium plated nut bolts in an approved manner. (C) 16/25 Sq.mm.	Ea.	15.00	15.15	242.40

Sr. No.	Rate Reference	Estimated Quantity	Discription	Unit	S.O.R :2023-24 RATE	Rate with 1% labour cess	Total Amount
121	2-15-3	45	<b>LIGHT FITTING</b> Supplying and erecting LED indoor fittings with LEDs of wattage 0.2 Watt to 0.5 Watt assembled on single MCPCB, with housing used as a heat sink shall be made of thick sheet Steel conforming to IS: 513/CRCA/aluminium pressure die cast powder coated and high U.V. & corrosion resistance with diffuser housed in aluminium casted body with company mark/name 160V to 270V,Power Factor more than 0.95, THD < 15 %, CCT 3000 K to 6500K, Luminaire efficacy> 85 lumens/watt , LED driver efficiency > 85 % ( fitting required LM-79 & LM-80 Certificates)(NOTE: Below description have shown ranges of Wattage capacity of LED fittings.The Engineer incharge may select any wattage capacity between the ranges shown.) (A) Square/ Circular shaped Surface/Recessed Mount Downlight with provision for spring loaded mounting clips complete.IP20 (ii) 15 watts, Surge-2 KV	Ea.	423.00	427.23	19,225.35
122	2-15-3	130	Supplying and erecting LED indoor fittings with LEDs of wattage 0.2 Watt to 0.5 Watt assembled on single MCPCB, with housing used as a heat sink shall be made of thick sheet Steel conforming to IS: 513/CRCA/aluminium pressure die cast powder coated and high U.V. & corrosion resistance with diffuser housed in aluminium casted body with company mark/name 160V to 270V,Power Factor more than 0.95, THD < 15 %, CCT 3000 K to 6500K, Luminaire efficacy> 85 lumens/watt , LED driver efficiency > 85 % ( fitting required LM-79 & LM-80 Certificates)(NOTE: Below description have shown ranges of Wattage capacity of LED fittings.The Engineer incharge may select any wattage capacity between the ranges shown.) (A) Square/ Circular shaped Surface/Recessed Mount Downlight with provision for spring loaded mounting clips complete.IP20 (iii) 20 watts, Surge-2 KV	Ea.	584.00	589.84	76,679.20
123	2-15-3	2	Supplying and erecting LED indoor fittings with LEDs of wattage 0.2 Watt to 0.5 Watt assembled on single MCPCB, with housing used as a heat sink shall be made of thick sheet Steel conforming to IS: 513/CRCA/aluminium pressure die cast powder coated and high U.V. & corrosion resistance with diffuser housed in aluminium casted body with company mark/name 160V to 270V,Power Factor more than 0.95, THD < 15 %, CCT 3000 K to 6500K, Luminaire efficacy> 85 lumens/watt , LED driver efficiency > 85 % ( fitting required LM-79 & LM-80 Certificates)(NOTE: Below description have shown ranges of Wattage capacity of LED fittings.The Engineer incharge may select any wattage capacity between the ranges shown.) (A) Square/ Circular shaped Surface/Recessed Mount Downlight with provision for spring loaded mounting clips complete.IP20 (H) Mirror Light 9 Watts, wall mounted minimum 1 feet long Cat-III	Ea.	309.00	312.09	624.18
124	5-3-4.	2	Supplying & erecting single phase approved make industrial exhaust fan suitable for medium duty ring mounted low noise operation suitable for medium duty having following dia size and maximum speed in RPM [A] 305 mm dia 900 RPM Cat.II	Ea.	2034.00	2,054.34	4,108.68
125	3-14-6-A	5	Providing and erecting Pipe type earthing having 150 cms.long and 2.5 cms. dia. galvanised iron pipe with coupling and buch buried in specially prepared earth pit complete with necessary 8 SWG earth wire.	Ea.	365.00	368.65	1,843.25
126	MR	1	Providing and erecting water cooler having storage capacity 30 Ltr. & cooling capacity 40 Ltr.per hour @ an ambient temp of 45° C. The outlet temp. of the water should drop by 15° C within a hour, The water cooler should be comprising of hermetically sealed compressor, fan motor, condensing unit, water tank surrounded by evaporating coil, thermostats, relay etc. complete with necessary inlet & outlet connection. The body of water cooler will be made from Stainless Steel. °	Ea.	32500.00	32,500.00	32,500.00
127	8-13-6.	1	Supplying & erecting 5 stage single reverse osmosis water purification system with M.S. powder coated frame, prefilter housing with 'O' ring presediment filter GAC filter, carbon filter suitable buster DC pump capacity 80 psi, mention with 40 psi inline type post carbon filter auto low & high pressure switches with following size of storage tank & LPH capacity & erected as directed [B] 25 Ltr / Hr with 30 Ltr. Storage Tank	Ea.	12924.00	13,053.24	13,053.24
128	MR	1	Supplying and Fixing Hand Dryer: Automatic Hand Dryer SS finish with compact size and auto temperature control. The hot wind will be turned off automatically when the environment exceeds 25°C for energy saving. Final selection of the product shall be done by Client. For all floor and all levels.	Ea.	12500.00	12,500.00	12,500.00
129	8-15-5.	1	<b>UPS</b> Supplying and erecting approved make online Un-interruptible Power Supply system comprising flat cum-boost charger with IGBT base rectifier & Inverter & sealed maintenance free SMF batteries. The charger having operating capacity for input 160-270V AC & inverter having output 230V,50 Hz Ac with 0.8 load power factor with battery, over/under voltage output with over load & short circuit protection equipment. The system housed in CRC sheet duly powder coated paint with following power backup.with MS painted batteries stand, 10% Overload capacity for momentary load. [H] 10 KVA with 1Hr Backup	Ea.	224736.00	2,26,983.36	2,26,983.36

Sr. No.	Rate Reference	Estimated Quantity	Discription	Unit	S.O.R :2023-24 RATE	Rate with 1% labour cess	Total Amount
130	MR	7	Supply, Installation, Testing and Comissioning of 4MP Fixed Lens Dome Type Camera, H.265 4MP IR Vandal Proof Dome N/W Camera, 2.8mm/3.6mm, 30M IR, Micro SD, DC12V/PoE, IP67/IK10, Basic IVA, 1 / 2.7" CMOS, 2560 x 1440, 0.01 Lux, F1.2, AGC ON; Defog, True day/night, Digital WDR, 3D DNR, HLC & BLC, Triple streams, Smart codec by ROI, Cyber Security, Basic intelligent video analytics, NDAA Compliance, UL, CE, FCC Certified.	Ea.	9500.00	9,500.00	66,500.00
131	MR	1	Supply, Installation, testing & Commissioning of 8Ch NVR server with Intel Xeon 2235 processor, resolution recording, Support up to 4K(3840x2160) resolution, Support redundancy architecture, Throughput bandwidth 576 Mbps, Up to 8 SATA interfaces (Max 60TB without RAID), Support HDD hot swap with RAID0,1,5,6,10 storage scheme configurable along with Video Management Software	Ea.	55000.00	55,000.00	55,000.00
132	MR	1	Supply, Installation, Testing and Comissioning of HDD 8 TB Enterprise for Recording of 30 Days with RAID Configuration	Ea.	35000.00	35,000.00	35,000.00
133	7-13-1.	200	SITC of O. F.Cable 06F Outdoor - Armoured Unitube SM - HDPE Sheath [Approved by Competent Authority]	Mtr.	50.00	50.50	10,100.00
134	7-13-2	1	SITC of LIU 12 PORT Rack Mount - Loaded (LC) SM [Approved by Competent Authority]	Ea.	6833.00	6,901.33	6,901.33
135	7-13-3	5	SITC of PIGTAIL LC SM SIMPLEX LENGTH- 1m [Approved by Competent Authority]	Ea.	772.00	779.72	3,898.60
136	7-13-4	5	SITC of PATCH CORD LC-LC SM DUPLEX LENGTH- 3m [Approved by Competent Authority]	Ea.	1883.00	1,901.83	9,509.15
137	7-13-15.	2	SITC of 24 x 10/100/1000BASE-T PoE ports 4 x Gigabit RJ45/SFP Combo ports Advanced L2 switching and security features L2+ Static Routing Optional "standard mode" or "surveillance mode" management user interface 193 W PoE budget [Approved by Competent Authority]	Ea.	31680.00	31,996.80	63,993.60
138	7-13-5	650	SITC of CAT6 UTP 23AWG Solid: Per Meter [Approved by Competent Authority]	Mtr	43.00	43.43	28,229.50
139	7-13-6	15	SITC of Face Plate - Single (Keystone Jack,square) [Approved by Competent Authority]	Ea.	90.00	90.90	1,363.50
140	7-13-8	15	SITC of Jack Cat 6 Keystone UTP [Approved by Competent Authority]	Ea.	160.00	161.60	2,424.00
141	7-13-11	15	SITC of CAT6 UTP 24AWG PATCH CORD:1M,Plug 30U' Snag less [Approved by Competent Authority]	Ea.	155.00	156.55	2,348.25
142	7-13-12	15	SITC of CAT6 UTP 24AWG PATCH CORD:2M,Plug 30U' Snag less [Approved by Competent Authority]	Ea.	199.00	200.99	3,014.85
143	MR	4	Shifting & re install of existng Class room AV system include Projector, Projector Screen, Amplifire, Rack Cable etc.	Ea.	10000.00	10,000.00	40,000.00
144	8-3-4.	12	Providing and erecting Inverter based approved make Cassette type split air-conditioning unit consisting of condensing unit with fan motor, hermetically sealed scroll/rotary compressor with accessories etc. duly connected separately erected evaporating unit and blower motor with its accessories by Eco friendly Green gas charging & Internal copper wiring & Remote control ( 3 star and above of current year) with necessary core cutting. (B) for 2 ton capacity	Ea.	66963.00	67,632.63	8,11,591.56
145	8-3-5.	80	Supplying and erecting insulated pair of soft copper tubing open or concealed including power and control cable,necessary PVC drain pipes for Split AC machine up to 4 TR capacity	Rmt.	814.00	822.14	65,771.20
146	8-3-6.	12	Supplying and installing MS angle , powder coated / Painted standard type of wall/floor stand mount for outdoor unit of split AC of following capacity, erected with necessary hardware materials as directed. (A) 25mm*25mm*3mm thick M.S angle suitable for upto 2 TR. Capacity of ac machine	Ea.	1102.00	1,113.02	13,356.24
147	MR	1	SITC of 2 Zone Networking Fire Alarm control Panel, 16X2 Character LCD Display, inbuilt TCP/IP Network, Inbuilt USB Port for Upload and Download data, Single PC software along with the panel & Max. 1000 Panels can be connect in a network can be Monitored & Controlled through software protected dongle - Optional . Panel does not have provision to connect Repeater Panel.	1	25600.00	25,600.00	25,600.00
148	MR	10	SITC of Multi Sensor (Smoke and Heat combination) Detector with base - Approval: UL Listed.	10	2500.00	2,500.00	25,000.00
149	MR	2	SITC of Conventional Sounder cum strobe with 24V DC, Audiable Sound 75 db @ 1 mtr range (16 V DC). It is used for Fire, Burglar & Emergency Alarm System, Low current consume @ 47 -73 mA Candela: flashing every second, 4 candela settings:15/30/75/110cd output and 2 different tone audible sound. Make: Ravel - Approval: UL Listed.	2	12500.00	12,500.00	25,000.00
150	MR	2	SITC of Manual Pull Station - Dual Action - Release Green in color. Approval: UL Listed.	2	7250.00	7,250.00	14,500.00
151	MR	550	Supply, Installation, Testing and Comissioning of 2 Core X 1.5 Sq.mm twisted pair shielded, PVC insulated armoured copper conductor Fire Survival cable.	550	200.00	200.00	1,10,000.00

Sr. No.	Rate Reference	Estimated Quantity	Discription	Unit	S.O.R :2023-24 RATE	Rate with 1% labour cess	Total Amount
152	10-2-26	4	Supplying & erecting carbon dioxide (CO2) fire extinguisher user of following capacity with necessary clamps made from 50 x 6 mm M.S. Flat with nut & bolts grouted in wall complete. [A] For 4.5 Kg Capacity	4	8586.00	8,671.86	34,687.44
153	10-2-27	4	Supplying & erecting ABC powder type 'Ceasefire' type Fire extinguisher as per IS 13849 or 1 Kg capacity with necessary clamp for erection on wall	4	840.00	848.40	3,393.60
					<b>Total Amount (Rs)</b>		<b>1,61,08,858.87</b>
					<b>Add GST 18%</b>		<b>28,99,594.60</b>
					<b>Add 1% contingency charges</b>		<b>1,61,088.59</b>
					<b>Add 1% Testing chages</b>		<b>1,61,088.59</b>
					<b>Total Amount (Rs)</b>		<b>1,93,30,630.64</b>