

CORRIGENDUM- 1, Dated 01/01/2025

BYPL NIT NO:	CMC/BY/24-25/RS/SvS/VK/50 Dated: 21.12.2024			
Work:	Civil Retrofitting Works of Office Buildings & Grid Buildings in BYPL			
SI. No	NIT Clause Reference	Description	Bidder's Query	BYPL's Clarifications
1	SECTION- VI, PRICE BID	PRICE BID	-	Price bid format has been revised which is attached herewith.

SECTION - VI**PRICE BID****Name of Work: Civil Retrofitting / Demolish & Reconstruction Works of Office and & Grid Substation Buildings in BYPL**

S.No.	Description of item	Qty	Unit	Amount (₹) excluding GST
1	PACKAGE-I (As per price breakup provided in Attachment-I)	1	LS	
2	PACKAGE-II (As per price breakup provided in Attachment-II)	1	LS	
3	PACKAGE-III (As per price breakup provided in Attachment-III)	1	LS	
4	PACKAGE-IV (As per price breakup provided in Attachment-IV)	1	LS	
5	PACKAGE-V (As per price breakup provided in Attachment-V)	1	LS	
6	PACKAGE-VI (As per price breakup provided in Attachment-VI)	1	LS	
Grand Total (excluding GST)				-
GST @18%				-
Grand Total (Including GST)				-

NOTE:

1)	The price quoted above shall remain firm for the entire duration of the contract including the extension period, if any.
2)	Reverse Auction (RA) is mandatory. RA methodology shall be informed separately to all the qualified bidders prior to RA.
3)	The bids will be evaluated commercially based on the total all-inclusive package-wise price quoted by the bidders. However, BYPL reserves the right to split the work/package for awarding the contracts to more than one bidders.
4)	The bidder shall quote the prices strictly in the above format/item description/content. The bid shall be liable for rejection if the contractor fails to do so.
5)	The bidder needs to quote for all the line items as mentioned above; failing which the bids are liable for rejection. In addition to that the bidder shall provide details breakup package-wise prices in the respective attachments.
6)	The unit price to be indicated should be exclusive of GST which are to be indicated in separated rows meant for the purpose.
7)	All materials are to be arranged by the contractor and test certificates are to be furnished by the contractor, wherever applicable.

ATTACHMENT-I
PACKAGE-I-Price Breakup

PART-A- Civil Repairing works at 33KV Grid Kailash Nagar.

PART-B-Civil Repairing works at 11KV substation near Ram Mandir Vivek Vihar

PART-C-Civil Repairing works at 66KV GRID Computer Centre Sonia Vihar (D)KWN

S.No.	Description	Quantities				Unit	Rate (In Rs.) e/x GST	Amount (In Rs.) e/x GST
		PART A	PART B	PART C	Total Quantities			
1	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 disposal of excavated earth, lead upto 50 m and lift upto 1.5 m, disposed earth to be levelled and neatly dressed : All kinds of soil.	30.00	276.80	125.00	431.80	CUM		
2	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	100.00	50.00	15.00	165.00	CUM		
3	Felling trees of the girth (measured at a height of 1 m above ground level), including cutting of trunks and branches, removing the roots and stacking of serviceable material and disposal of unserviceable material. Beyond 30 cm girth upto and including 60 cm girth	10.00	28.00	6.00	44.00	Each		
4	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:1½:3 (1 Cement: 1½ coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	24.00	8.00	0.00	32.00	CUM		
5	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:4:8 (1 Cement : 4 coarse sand (zone-III) derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources)	20.00	76.80	18.00	114.80	CUM		
6	Reinforced cement concrete work in beams, suspended floors, roofs having slope upto 15°, landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases upto floor five level excluding the cost of centring, shuttering, finishing and reinforcement with 1:1.5:3 (1 Cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	5.00	38.00	0.00	43.00	CUM		
7	Centring and shuttering including strutting, propping etc. and removal of form work for : Foundations, footings, bases of columns.	35.00	490.00	23.00	548.00	SQM		
8	Centring and shuttering including strutting, propping etc. and removal of form for: Suspended floors, roofs, landings, balconies and access platform	50.00	135.00	0.00	185.00	SQM		
9	Reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete. cold twisted bars	1200.00	14000.00	200.00	15400.00	KG		
10	Add for plaster drip course/groove in plastered surface or moulding to R.C.C. projections	50.00	100.00	0.00	150.00	M		
11	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in cement mortar 1 : 4 (1 cement : 4 coarse sand)	15.00	35.00	0.00	50.00	CUM		
12	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : Cement mortar 1:4 (1 cement : 4 coarse sand)	30.00	118.00	5.00	153.00	CUM		
13	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	100.00	60.00	130.00	290.00	SQM		
14	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	4800.00	800.00	1640.00	7240.00	KG		
15	52 mm thick cement concrete flooring with concrete hardener topping, under layer 40 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and top layer 12 mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate 6 mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufacturer's specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete.	200.00	115.00	0.00	315.00	SQM		
16	Cement plaster skirting (upto 30 cm height) with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement. 18 mm thick	20.00	35.00	0.00	55.00	SQM		
17	Providing and fixing glass strips in joints of terrazzo/cement concrete floors. - 40 mm wide and 4 mm thick.	100.00	400.00	0.00	500.00	M		
18	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete with base of cement mortar 1:4 (1 cement : 4 coarse sand) : 25 mm thick	10.00		0.00	10.00	SQM		
19	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12mm (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 slabs, including rubbing and polishing complete.	10.00		0.00	10.00	SQM		
20	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), Jointing with grey cement slurry @ 3.3 kg/sqm including pointing the joints with white cement and matching pigment etc., complete.	30.00	15.00	35.00	80.00	SQM		
21	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600 mm	80.00	15.00	45.00	140.00	SQM		
22	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement :2 coarse sand : 4 graded stone aggregate of 10 mm and down gauge) including finishing with cement mortar 1:3 (1 cement: 3 fine sand) as per standard design : In 75 x75 mm deep chase	140.00	55.00	200.00	395.00	M		
23	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 m x1 m x 400 micron, finished with 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.	35.00	5.00	24.00	64.00	Each		
24	12 mm cement plaster of mix: 1:4 (1 cement : 4 coarse sand)	500.00	100.00	325.00	925.00	SQM		
25	15 mm cement plaster on rough side of single or half brick wall of mix 1:4 (1 cement : 4 coarse sand)	500.00	100.00	300.00	900.00	SQM		
26	Neat cement punning	600.00	20.00	670.00	1290.00	SQM		
27	Extra for providing and mixing water proofing material in cement plaster work in proportion recommended by the manufacturers.(Per Bag of 50 KG cement used in the mix)	60.00	300.00	36.00	396.00	Each		
28	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	1500.00	0.00	1760.00	3260.00	SQM		
29	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface : Water thinnable cement primer	1500.00	0.00	1760.00	3260.00	SQM		
30	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade :Two or more coats on new work	1500.00	0.00	1760.00	3260.00	SQM		
31	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade. Two or more coats on new work.	500.00	120.00	280.00	900.00	SQM		

S.No.	Description	Quantities				Unit	Rate (In Rs.) e/x GST	Amount (In Rs.) e/x GST
		PART A	PART B	PART C	Total Quantities			
32	Washed stone grit plaster on exterior walls of height upto 10 metre above ground level, in two layers, under layer 12mm cement plaster 1:4 (1cement: 4 coarse sand), furrowing the under layer with scratching tool, applying cement slurry on the under layer @ 2 Kg of cement per square metre, top layer 15mm cement plaster 1:1/2:2 (1 cement: 1/2 coarse sand :2 stone chipping 10mm nominal size), in panels with groove all around as per approved pattern, including scrubbing and washing the top layer with brushes and water to expose the stone chippings, complete as per specification and direction of Engineer-in- charge (Payment for providing grooves shall be made separately).	350.00	800.00	940.00	2090.00	SQM		
33	Forming groove of uniform size from 12x12mm and upto 25x15mm in the top layer of washed stone grit plastered surface as per approved pattern, including providing and fixing aluminum channels of appropriate size and thickness (not less than 2 mm), nailed to the under layer with rust proof screws and nails and finishing the groove complete as per specifications and direction of the Engineer-in-Charge.	350.00	1470.00	2170.00	3990.00	M		
34	Extra for using white cement in place of ordinary cement in the top layer of the item of washed stone grit plaster.	950.00	900.00	940.00	2790.00	SQM		
35	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.	800.00	0.00	350.00	1150.00	SQM		
36	Removing dry or oil bound distemper water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	2000.00	0.00	2110.00	4110.00	SQM		
37	Providing and fixing double scaffolding system (cup lock type) on the exterior side of building/ structure, upto 25 metre height, above ground level including additional rows of scaffolding in stepped manner as per requirement of site, made with 40mm dia. M.S. tube 1.5 m centre to centre horizontal & vertical tubes joining with cup & lock system with M.S. tubes, M.S. tube chalis, M.S. clamps and staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for execution of work of cleaning and / or pointing and/ or applying chemical and removing it thereafter. The scaffolding system shall be stiffened with bracings, runners, connection with the building etc, wherever required, if feasible, for inspection of work at required locations with essential safety features for the workmen etc. complete as per directions and approval of Engineer-in-charge .The elevational area of the scaffolding shall be measured for payment purpose .The payment will be made once only for execution of all items for such works.	280.00	0.00	0.00	280.00	SQM		
38	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of engineer in charge. Nominal concrete: 1:3:6 or richer mix (i/c equivalent design mix)	20.00	45.00	2.00	67.00	CUM		
39	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	150.00	155.00	50.00	355.00	CUM		
40	Demolishing brick work manually /by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-In-charge.: In cement mortar	18.00	36.00	0.00	54.00	CUM		
41	Dismantling steel work in built up sections in angles, tees, flats and channels including all gusset plates, bolts, nuts, cutting rivets, welding etc. including dismembering and stacking within 50 m lead.	511.00	800.00	0.00	1311.00	KG		
42	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead:For thickness of tiles 10 mm to 25 mm	150.00	0.00	65.00	215.00	SQM		
43	Demolishing mud phaska in terracing and disposal of material within 50 metres lead (15.27-AR282)	80.00	40.00	95.00	215.00	CUM		
44	Dismantling roofing including ridges, hips valleys and gutters etc., and stacking the material within 50 metres lead of: G.S. Sheet	50.00	0.00	45.00	95.00	SQM		
45	Dismantling old plaster or skirting, raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	1500.00	150.00	1520.00	3170.00	SQM		
46	Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 metre openable length (total length 90 m), having 50 nos rounds per 6 metre length, upto 3 m height of wall with existing angle iron 'Y' shaped placed 2.4m or 3.00 m apart and with 9 horizontal R.B.T. reinforced barbed wire, stud tied with G.I. staples and G.I. clips to retain horizontal, including necessary bolts or G.I. barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape(R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mm with tape (0.52 mm thick) and weight 43.478 gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately)	200.00	90.00	0.00	290.00	M		
47	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required: White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	1.00	1.00	1.00	3.00	Each		
48	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including W.C. pan with ISI marked white solid plastic seat and lid	1.00	1.00	2.00	4.00	Each		
49	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm and 340x410x265 mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required : One urinal basin with 5 litre white P.V.C. automatic flushing cistern	2.00	1.00	3.00	6.00	Each		
50	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require: White Vitreous China Flat back wash basin size 550x 400 mm with single 15 mm C.P. brass pillar tap	2.00	1.00	3.00	6.00	Each		
51	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. Flexible pipe- 32 mm dia	4.00	2.00	4.00	10.00	Each		
52	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.Internal work - Exposed on wall : 20 mm nominal outer dia Pipes., (18.7.2-AR358)	25.00	20.00	40.00	85.00	M		
53	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. 20 mm nominal dia Pipes (Concealed work, including cutting chases and making good the walls etc.)	25.00	25.00	35.00	85.00	M		
54	Providing and fixing brass bib cock of approved quality : 20 mm nominal bore	4.00	1.00	4.00	9.00	Each		
55	Providing and fixing brass stop cock of approved quality : 20 mm nominal bore	4.00	1.00	4.00	9.00	Each		
56	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet : 150 mm diameter	1.00	0.00	1.00	2.00	Each		

S.No.	Description	Quantities				Unit	Rate (In Rs.) e/x GST	Amount (In Rs.) e/x GST
		PART A	PART B	PART C	Total Quantities			
57	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	5000.00	1000.00	10000.00	16000.00	PER LITRE		
58	Removing of damaged / broken / twisted IRC welded mesh fencing panels repairing of damaged / broken members , replacing new members if required, setting right the fencing panel in proper shape and size as per site requirement, re-fixing of panel at old location / new location in proper position and required alignment, Rate includes the cost of all labour , T & P , welding rods, welding machine, etc complete. The cost of structural steel and nut bolts, washers, IRC welded Mesh etc., if required will be paid separately.	400.00	0.00	0.00	400.00	SQM		
59	Providing and fixing 60 cm long PVC rain water spout in proper line and level in cement mortar 1:4 (1 cement : 4 fine sand) in the existing khurra level, dismantling wall/ pipe and making hole of required size for fixing of pipe, filling CC 1:3:6 (1cement :3 coarse sand : 6 graded stone aggregate 20mm nominal size) between wall and pipe, plastering both sides of walls with cement mortar 1:4 (1 cement :4 fine sand)and making the pipe joint leak proof.	30.00	5.00	24.00	59.00	Each		
60	Chipping of Unsound Concrete :Cleaning the concrete surface by removing dirt and debris, marking defective locations and Chipping/removing of loose/Unsound/weak concrete from slabs beams , columns etc by careful stripping untill hard surface is exposed, cutting the concrete to regular shape, wire brushing the exposed surface and removing debris from site complete as per direction of the Engineer - in - Charge. Upto 75mm average. Protective coating: Applying two coats of surface applied Bipolar Corrosion inhibitor FAIRCRETE C SURFACE APPLIED or equivalent as per manufacturer's specification and direction of the Engineer	72.00	0.00	100.00	172.00	SQM		
61	Rust Removal & Anti corrosive coating				0.00			
62	Providing and applying Reebaklens RR, a combination of acid based material, corrosion inhibitors and dispersing agents rust remover, for removal of all rust/ scales/corrosion from reinforcement bars before microconcreting or patch repair, having Specific Gravity 1.16-1.22. Reebaklens RR Shall be applied with brush for complete wetting of rusted metal surface at coverage of 2-2.5 Sqm/ltr. & allow it to react for 16-24 hours. After 24 hours, a white layer will appear which will protect further corrosion of metal /steel for about 5-7 days. Before applying any protective coating, the surface should be wire brushed and thoroughly cleaned for dust with dry cloth.	5.00	0.00	5.00	10.00	SQM		
63	Providing and applying Nitozinc Primer an epoxy based zinc rich anti corrosive primer having adhesive bond strength ≥ 1.5 MPa as per ASTM D4541, & shall comply to per ASTM B-117 to be applied on well cleaned, fully exposed and all loose scale , rust free rust free surface obtained by grit blasting or suitable means , to be done with coverage @4.5sqm/litres to achieve a minimum thickness of 40microns DFT or as per direction of Engineer-In charge.	5.00	0.00	5.00	10.00	SQM		
64	Providing and applying Renderoc SP40 shrinkage compensated fiber reinforced polymer modified wet spray repair mortar on the prepared surface and curing with curing compound.The repair mortar used shall be single component and shall be mixed with water at water powder ratio of 0.18 and shall have drying shrinkage < 1000 microstrain as per ASTM C 157-93; compressive strength > 40 MPa ; Flexural Strength > 7 Mpa as per ASTM C 348, bond strength > 6 MPa as per ASTM C 1042, etc complete. Product used shall have CE (CE-29842) marking and compliance according to Construction Products Directive 89/106/EEC (CPD). Cost of curing compound shall be paid separately. Thickness 25mm. [Polymer Modified Mortar for Surface Repair (Lesser thickness & Larger surface area- Wet spray mortar)]	40.00	0.00	100.00	140.00	SQM		
65	Providing and applying Concure 1315, a acrylic polymer based non-degrading single component having solid content 33% to be applied over the freshly casted concrete members. The coating shall be applied using brush/roller/roller @ consumption of 200ml/coat/sqm. The coating shall comply to ASTM C1315 Type 2, & shall have moisture retention < 0.4 kg/m ² as per ASTM C156, Adhesion of tile cement : >0.5 N/mm ² . [Curing Compound]	40.00	0.00	100.00	140.00	SQM		
66	Polyurethane Waterproofing by Dr.Fixit Flexi PU 270(I) : Removing & chipping off of existing losse plaster. Clean the surface from contaminants with brush. Remove any sharp protrusion on the blinding layer by chipping and local repairs. Surface Preparation: All surfaces which are to receive the coating must be free from oil, laitance, grease, wax, dirt or any other form of foreign matter which might affect adhesion. Cut back any protrusions. Typically concrete surfaces can be cleaned using high pressure water jet or by proper wire brushing/grinder.All cracks, construction joints,honey combed/damaged surface to be repair with PMM and cracks to be chase out by cutting 25mm x 25mm "V" shape groove all along the crack, cleaning cracks and sealing it using Mesto Grout HS , curing etc., all complete as per the manufactureres specification and direction of engineer-in-charge. L Shape, Angular Fillet: Providing 50 mm X 50 mm angle fillets on the vertical up- stands, parapet wall junction corners, service units and properly dressed by preparing polymer modified mortar with Pidicrete URP or equivalent in the ratio of 1:3 by adding polymer 10% by weight of the cement, add little water, until the required consistency is achieved. Injection Grouting: Providing and applying injection grouting treatment by chemical injection grout process at construction joints, wall joints, honey comb areas etc. in concrete surface or the area using nozzles of min 25-50mm deep in slabs along with construction joints consisting of injection cement slurries of different viscosities under pressure by pump using injection grout waterproofing chemical (Pidicrete AM) mixed with neat cement slurry and sealing off nozzles after the injection operation. Screeding: Providing and laying of average 75mm thick (or suitable thickness for necessary slope) concrete screed of minimum M 20 grade concrete. PU Waterproofing Coating: Supplying and applying, Dr.Fixit Flexi PU 270(I) highly flexible is a liquid-applied, highly permanent elastic, cold applied and cold curing single component polyurethane cold applied coating system water proofing liquid membrane after applying Dr.Fixit Flexi PU 270(I). Over the primer coat . Polyurethane Dr.Fixit Flexi PU 270(I), shall be laid using Brush/roller in 3 layers to attain a seamless state of membrane. After applying the first coat of Dr.Fixit Flexi PU 270(I) leave dry for 8-10 hours, then apply the second coat of Dr.Fixit Flexi PU270(I) leave dry for 8-10 hours. Then the final coat of Dr.Fixit Flexi PU 270(I) leave dry for 8-10 hours. The layers of the liquid membrane to be terminated properly. properties polyurethane membrane with elongation of 400% as per ASTM D 412,tensile strength of 4 Nsqmm as per ASTM D412,shore hardness(shore A scale) 65 as per ASTM D 2240,adhesion to concrete > 2.0 N/mm2 as per ASTM D 903 applied in 3 coats at a total consumption of min. 2 Kg./ Sq.Mt.	600.00	136.00	620.00	1356.00	SQM		
67	Supply, precast RCC trench cover of various size varying 1500 mm in length, 450 mm in width & 50 mm in thickness, with 3 mm thick 50mm wide, ms strip all around welded to the steel reinforcement bar of 6mm dia, 100 mm centre to centre & two no. hooks of 12 mm dia bar for lifting gaving finishing top surface & grade of cement concrete M-20. (AR478)	50.00	0.00	0.00	50.00	SQM		
68	Drilling and fixing NRV injection packers in RC members for Epoxy or PU Injection including, drilling holes in structural members at the intervals as per recommendations/ requirements, cleaning the holes by air blower prior to fixing nozzles. Insert 12 mm dia., 50-75 mm long injection packers in cleaned holes with solvent free, moisture insensitive epoxy resin based putty or equivalent. Cut the packers by cut of wheel after completion of grouting without damaging structural elements.	400.00	0.00	0.00	400.00	Nos		
69	Providing and injecting approved ultra low viscous, solvent free high strength epoxy resin conforming to ASTM C 881 into cracks/ honey-comb area of concrete/ masonry by suitable gun/ pump at required pressure as per directions of Engineer-in-Charge.	92.00	0.00	0.00	92.00	KG		
70	Providing, mixing and applying bonding coat of approved adhesive on chipped portion of RCC as per specifications and direction of Engineer-in-charge	88.00	0.00	0.00	88.00	SQM		

S.No.	Description	Quantities				Unit	Rate (In Rs.) e/x GST	Amount (In Rs.) e/x GST
		PART A	PART B	PART C	Total Quantities			
71	Construction of Horizontal and Vertical Seismic Band as per IS: 13925 by cutting chase in existing plaster by mechanical cutter, removing plaster, raking expose joints, cleaning, providing and fixing 3.25 mm dia (Gauge 10) Galvanised steel wire fabric mesh with spacing 25 mm x 25 mm to be fixed & firmly anchored to the surface of Brick masonry, stone masonry or concrete by means of GI steel shear key or bolts and tying the mesh to the bolts with GI binding wire including fixing the steel bars in position using epoxy resin anchor grout of approved make complete with cost of labour, tool & plants etc. complete as required for fixing as per direction of Engineer-in-charge.	450.00	0.00	0.00	450.00	SQM		
72	Provide and install sacrificial zinc anodes Fosroc Galvashield XPI, to prevent the initiation of corrosion in steel reinforcement within chloride-contaminated or carbonated concrete, or in new construction. Each anode unit must contain a minimum of 60 grams of zinc, compliant with ASTM B418-95a, Type I, die-cast around steel tie wires, ensuring proper separation if multiple tie wires are used. The anodes must be encapsulated in a highly alkaline cementitious mortar with a pH of 14 or higher, free from sulfates, chlorides, bromides, or any other corrosive elements to steel. The encapsulating mortar should feature an interconnected and fine pore structure to dissolve, transport, and accommodate zinc corrosion products away from the anode surface without causing additional stress to the concrete cover, maintaining a pH > 14 near the uncorroded zinc for the specified service life. Anode units shall be supplied with integral, well-separated tie wires (without splices if multiple wires are used) and loop ties for direct attachment to the reinforcing steel. Anodes should be covered with a bed mortar with resistivity less than 50 kOhm-cm or similar to the parent concrete on cleaned steel reinforcement before applying passivation coating. The scope includes supply, installation, spacing calculations, quality assurance procedures, and must adhere to manufacturer specifications. Approved brand shall be M/s Fosroc Galvashield Anodes/Vector Galvashield/IPSS	50.00	0.00	0.00	50.00	Nos		
73	Supply and apply Nitobond AR, an acrylic-based emulsified solution containing a minimum of 43% solids and compatible with cementitious materials. The bonding agent shall provide sufficient bond strength when applied directly on concrete or when mixed with neat cement. Ensure proper application to achieve effective adhesion between substrates and subsequent layers of cementitious materials, adhering to manufacturer's recommendations for optimal performance and durability in construction applications. Nitobond AR is particularly suitable when a longer working period after applying the bonding agent is required	200.00	0.00	0.00	200.00	Sqm		
74	Surface Preparation: Make a 'V' groove 5 mm wide and 5 mm deep over the crack line using an electrically operated angle grinder with a diamond concrete saw blade. Clean the groove thoroughly with an air blower as directed by the Engineer-in-charge.	65.00	0.00	0.00	65.00	Mtr		
75	Sealing with Epoxy Repair Mortar: Seal the exposed 'v' groove (5 mm deep, 5 mm wide) with a solvent-free, moisture-tolerant, thixotropic, two-part structural adhesive and epoxy repair mortar cum surface levelling mortar. Ensure the epoxy repair mortar has compressive strength ≥ 60 N/mm ² (7 Days, BS 6319), flexural strength ≥ 20 N/mm ² (7 Days, BS 6319), and tensile strength ≥ 10 N/mm ² (7 days, ASTM C 307). Use products like NITOMORTAR S OF FOSROCC, Sikadur®-31 of Sika, MasterBrace 2200 BASF, or equivalent of Pidilite.	65.00	0.00	0.00	65.00	Mtr		
76	Supply and install reinforcement bars using Heavy Duty rebaring chemical Fosroc LOKFIX E77 for main bars and LOKFIX E45T for shear connectors, pure epoxy chemical anchor grout with ETA approval from DIBt, suitable for reinforcement bars ranging from 8 mm to 40 mm in diameter at specified embedment depths as per manufacturer's specifications. The epoxy chemical must have a working life period certified for 50 or 100 years as per ETA from DIBt, with properties including fire resistance tested to withstand 120 minutes (DIN EN 1363-1:2012, Technical Report TR 020), and must have water tightness certificate for "0" mm under 5 bar water pressure (EN 12390-8:2019). ETA approval from DIBt for Diamond Drilling is required, alongside LEED certification and compliance with LEED V4 standards (ISO 16000, EN 16516, CDPH 01350, ASTM D2369, EPA method 24). Rates shall encompass labor, tools and plants for power drilling in concrete, epoxy cartridges, plastic nozzles, and complete drilling holes with dust removal by air blowing. Additional charges apply for reinforcement bars. (Product :- Lockfix of Fosroc/ RE-500 of Hilti/ MasterFlow 935 AN of BASF/ Fischer/Wruth) a) Rebar 10 mm Dia x 14 mm holes x 100mm depth	50.00	0.00	0.00	50.00	Nos		
77	Supply and install reinforcement bars using Heavy Duty rebaring chemical Fosroc LOKFIX E77 for main bars and LOKFIX E45T for shear connectors, pure epoxy chemical anchor grout with ETA approval from DIBt, suitable for reinforcement bars ranging from 8 mm to 40 mm in diameter at specified embedment depths as per manufacturer's specifications. The epoxy chemical must have a working life period certified for 50 or 100 years as per ETA from DIBt, with properties including fire resistance tested to withstand 120 minutes (DIN EN 1363-1:2012, Technical Report TR 020), and must have water tightness certificate for "0" mm under 5 bar water pressure (EN 12390-8:2019). ETA approval from DIBt for Diamond Drilling is required, alongside LEED certification and compliance with LEED V4 standards (ISO 16000, EN 16516, CDPH 01350, ASTM D2369, EPA method 24). Rates shall encompass labor, tools and plants for power drilling in concrete, epoxy cartridges, plastic nozzles, and complete drilling holes with dust removal by air blowing. Additional charges apply for reinforcement bars. (Product :- Lockfix of Fosroc/ RE-500 of Hilti/ MasterFlow 935 AN of BASF/ Fischer/Wruth) b) Rebar 12 mm Dia x 16 mm holes dia x 120 mm depth	20.00	0.00	0.00	20.00	Nos		
78	Supply and install reinforcement bars using Heavy Duty rebaring chemical Fosroc LOKFIX E77 for main bars and LOKFIX E45T for shear connectors, pure epoxy chemical anchor grout with ETA approval from DIBt, suitable for reinforcement bars ranging from 8 mm to 40 mm in diameter at specified embedment depths as per manufacturer's specifications. The epoxy chemical must have a working life period certified for 50 or 100 years as per ETA from DIBt, with properties including fire resistance tested to withstand 120 minutes (DIN EN 1363-1:2012, Technical Report TR 020), and must have water tightness certificate for "0" mm under 5 bar water pressure (EN 12390-8:2019). ETA approval from DIBt for Diamond Drilling is required, alongside LEED certification and compliance with LEED V4 standards (ISO 16000, EN 16516, CDPH 01350, ASTM D2369, EPA method 24). Rates shall encompass labor, tools and plants for power drilling in concrete, epoxy cartridges, plastic nozzles, and complete drilling holes with dust removal by air blowing. Additional charges apply for reinforcement bars. (Product :- Lockfix of Fosroc/ RE-500 of Hilti/ MasterFlow 935 AN of BASF/ Fischer/Wruth) c) Rebar 16 mm Dia x 20 mm holes dia x 160 mm depth	10.00	0.00	0.00	10.00	Nos		
79	Strengthening: Carbon fibre wrap/Carbon Laminates							

S.No.	Description	Quantities				Unit	Rate (In Rs.) e/x GST	Amount (In Rs.) e/x GST
		PART A	PART B	PART C	Total Quantities			
80	<p>Providing and applying uni directional, high strength carbon fiber sheets Nitowrap CWS of 450 GSM/ dry fabric thickness. The FRP fabric used shall be of zero degree unidirectional fibers having fiber density of 1.8 g/cc and shall have tensile strength > 4900 MPa ; tensile modulus > 230 GPa and ultimate elongation of 2.1%. The substrate shall be primed with Nitowrap 30 epoxy primer & Nitowrap 410 impregnating resin saturant shall be used for saturating the fibers. Saturant used shall have tensile strength of >30 MPa; Elongation > 2% ; Flexural strength > 30 MPa ; Tensile Modulus > 2400 MPa & Flexural Modulus > 1700 MPa when tested as per ASTM D638 Type I and ASTM D 790 & Glass Transition Temperature > 50 deg Celcius as per ASTM E 1356. The adhesion of the entire system (FRP Sheet, Saturant and primer combined) with concrete shall be > 3.5 MPa with concrete failure as per ASTM D 4541.</p> <p>(Product :- Nitowrap CWS of 450 GSM of Fosroc, Sikawrap® 930 G of Sika / MasterBrace FIB 73/900 of BASF)</p> <p>Surface preparation: Grinding/ moulding concrete substrate cleaning it with wire brush removing oil, laitance if present, rounding sharp edges to min 25mm radius etc. complete.</p> <p>Profiling : Applying compatible primer of approved make and brand on prepared substrate, filling the holes and uneven surface with thixotropic putty etc. complete.</p> <p>Wrapping : Wrapping the fiber sheet with recommended overlapping to structural element at desired orientation using tamping roller to avoid any air voids etc. repeat the same procedure for multiple layer with the interval of 8 hrs.</p> <p>Sand Pasting : Applying second coat of saturated after 12 hrs. rectify air voids if any, paste the coarse sand on it to make surface rough to take any further finishes</p> <p>(Mode of measurement : Per sqm surface area of application per layer).</p>	1.00	0.00	0.00	1.00	SQM		
81	<p>Supply and install fiber anchors to be embedded at a depth of 75 mm with 75 mm protrusion, spaced at 500 mm center to center. (Product make: Fosroc/ Sika/ BASF)</p>	50.00	0.00	0.00	50.00	Nos		
	PU Grout to arrest water leakage				0.00			
82	<p>Water-stopping crack injection resin foam shall be Nitofill WS60, a two-part foaming liquid polyurethane. When mixed in the supplied proportions and injected into concrete cracks, the resin reacts with moving water to create a foam barrier that stops water infiltration. The resin's properties include a pot life of 6-8 hours at 20°C, specific gravity of 1.11 ± 0.03, and foam density of 0.024g ± 0.003. Used alongside Nitofill UR63, a flexible two-part polyurethane injection resin, it ensures a permanent seal in cracked concrete. Nitofill UR63 is a solvent-free liquid polyurethane that, when mixed and injected into cracks, forms a slightly flexible and impermeable barrier in dry and damp conditions. This polyurethane system features a pot life of 60 to 80 minutes at 25°C, reaction time of 70 to 90 minutes at 25°C, viscosity of 40-60 cps at 25°C, and specific gravity of 1.1. When combined with Nitofill WS60, the foaming polyurethane resin, it guarantees a durable seal in cracked concrete.</p> <p>Nitofill WS60</p>	5.00	0.00	0.00	5.00	Kg		
83	<p>Water-stopping crack injection resin foam shall be Nitofill WS60, a two-part foaming liquid polyurethane. When mixed in the supplied proportions and injected into concrete cracks, the resin reacts with moving water to create a foam barrier that stops water infiltration. The resin's properties include a pot life of 6-8 hours at 20°C, specific gravity of 1.11 ± 0.03, and foam density of 0.024g ± 0.003. Used alongside Nitofill UR63, a flexible two-part polyurethane injection resin, it ensures a permanent seal in cracked concrete. Nitofill UR63 is a solvent-free liquid polyurethane that, when mixed and injected into cracks, forms a slightly flexible and impermeable barrier in dry and damp conditions. This polyurethane system features a pot life of 60 to 80 minutes at 25°C, reaction time of 70 to 90 minutes at 25°C, viscosity of 40-60 cps at 25°C, and specific gravity of 1.1. When combined with Nitofill WS60, the foaming polyurethane resin, it guarantees a durable seal in cracked concrete.</p> <p>Nitofill UR63</p>	5.00	0.00	0.00	5.00	Kg		
84	<p>Supply and apply Dekguard E2000, a high-performance elastomeric protective anticarbonation coating for concrete and masonry. The protective coating system includes a penetrating silane-siloxane primer (Dekguard Primer) and a single-component elastomeric anticarbonation aliphatic acrylic coating (Dekguard E2000). Ensure the total dry film thickness of the protective coating system is not less than 200 microns. The coating system shall provide CO2 diffusion resistance of at least 50 meters (equivalent air layer thickness), static crack accommodation of minimum 2mm, and adhesion greater than 1.0 N/mm² as per ASTM D 4541. The product used must meet specified performance standards for durability and protection against carbonation. Apply in accordance with manufacturer's guidelines to ensure effective long-term performance and adherence to project requirements</p>	37.00	0.00	0.00	37.00	Sqm		
85	<p>Providing, cutting and laying SWG10 welded wire mesh and mesh size 50x50 mm including anchoring it on the wall with 4.75mm bar by drilling and fixing with cement slurry as per drawing details, specification and instruction by the Engineer.</p>	39.00	0.00	0.00	39.00	Sqm		
86	<p>Provide and apply single-component, free-flowing, non-shrink cementitious microconcrete at a water-to-powder ratio of 0.15. The microconcrete should have a fresh wet density of 2200 kg/m³ at 27°C and an unrestrained expansion of 1 to 4% as per ASTM C827. It must achieve a flowable consistency and compressive strength of not less than 10 N/mm² after 24 hours, 35 N/mm² after 7 days, and 45 N/mm² after 28 days at 30°C. The cured microconcrete shall be free from metallic aggregates and chlorides, and it must be shrinkage-compensated in the plastic state. Payment will be based on the consumed dry material of the microconcrete mix (Product :- Renderoc RG 45 of Fosroc/ SikaRep® Microcrete -4 of Sika / MasterEmaco S-346 of BASF or equivalent of Pidilite)</p> <p>a) Without addition of aggregate</p>	0.50	0.00	0.00	0.50	TON		
87	<p>Provide and apply single-component, free-flowing, non-shrink cementitious microconcrete at a water-to-powder ratio of 0.15. The microconcrete should have a fresh wet density of 2200 kg/m³ at 27°C and an unrestrained expansion of 1 to 4% as per ASTM C827. It must achieve a flowable consistency and compressive strength of not less than 10 N/mm² after 24 hours, 35 N/mm² after 7 days, and 45 N/mm² after 28 days at 30°C. The cured microconcrete shall be free from metallic aggregates and chlorides, and it must be shrinkage-compensated in the plastic state. Payment will be based on the consumed dry material of the microconcrete mix (Product :- Renderoc RG 45 of Fosroc/ SikaRep® Microcrete -4 of Sika / MasterEmaco S-346 of BASF or equivalent of Pidilite)</p> <p>b) With addition of 6 mm down aggregate in 3:1 (3 Micro concrete: 1 aggregate 6 mm & down)</p>	0.50	0.00	0.00	0.50	TON		
88	<p>12mm ready mix cement plaster - Ready mix cement plaster/ render with high quality polymer additives, special binders, well graded sand and fillers can be applied on brick & block masonry for both external and internal plastering works.(UltraTech Readiplast / Fosroc)</p>	16.00	0.00	0.00	16.00	SQM		
89	<p>15mm ready mix cement plaster - Ready mix cement plaster/ render with high quality polymer additives, special binders, well graded sand and fillers can be applied on brick & block masonry for both external and internal plastering works.(UltraTech Readiplast / Fosroc)</p>	5.00	0.00	0.00	5.00	SQM		
90	<p>6mm ready mix cement plaster - Ready mix cement plaster/ render with high quality polymer additives, special binders, well graded sand and fillers can be applied on brick & block masonry for both external and internal plastering works.(UltraTech Readiplast / Fosroc)</p>	39.00	0.00	0.00	39.00	SQM		

S.No.	Description	Quantities				Unit	Rate (In Rs.) e/x GST	Amount (In Rs.) e/x GST
		PART A	PART B	PART C	Total Quantities			
91	Openable -WINDOW, TYPE:GALVANIZED IRON STEEL PRE PAINTED; MATERIAL:GALVANIZED IRON STEEL PRE PAINTED;; WITH GLASS OF 5MM THICKNESS; MODEL: ECO 3000 SERIES; MAKE: NCL; DIMENSION AS PER SITE CONDITION; SPECIAL FEATURES: OPENABLE;Providing and fixing Eco 3000 Series Windows fabricated from roll formed sections made of Galvanized Steel Colour Coated/Powder Coated (Base Steel as per IS 513 "D" quality, Galvanized as per IS 277 with Zinc of 120 grams/Sq. Mtr.) with total coated thickness of 0.60 mm. Coated Sections should be with Primer Coat of Epoxy Primer of 5-7 microns thick, finish painted with Polyester Paint of 12-16 microns thick and back coated with Alkyd backer of 5-7 microns, or Powder Coated with pure Polyester Powder up to 50-60 microns thick.Section for frame should be 48mm x 50mm, Section for Mullion should be of 48mm x 50mm, Section for Glazed Shutter Frame should be of 47mm x 20mm, and Section for Fixed Glass Bead should be of 12mm x 12mm.Frame and Shutter Frame Sections should be cut to length and metre joined with Polypropylene Corner Brackets. Mullion Section should be joined with Frame/Mullion using Nylon Mullion Cap. Ethyl Propylene Diamine Monomer (EPDM) Gasket should be used all around glass in shutter.Each Glazed Shutter should be provided with S.S. Pivot Hinges-1set, Seccolor Handle & Seccolor Stay.Window Frame should be fixed to brick/concrete masonry by using Nylon self expanding caps and driving MS electroplated 80mm long screws into the caps through frames. (after fixing the windows, gap shall be filledup by sellicon sealant , gaps more than 5mm shall be filled with backer rod of approved quality).Glass shutter & Fixed Glass portions should be provided with a glass of 5MM Plain Float Glass.Windows should be provided with Grill made of 10mm sq. MS Bars welded to at 150mm center-to-center, 6mm x 12mm MS flat. Total grill unit should be powder coated and fixed to window frame with screws. The rates shall include P/F of all hardware as per site requirement.	8.00	10.00	0.00	18.00	SQM		
92	Fixed - WINDOW, TYPE:GALVANIZED IRON STEEL PRE PAINTED; MATERIAL:GALVANIZED IRON STEEL PRE PAINTED;; WITH GLASS OF 5MM THICKNESS; MODEL: ECO 3000 SERIES; MAKE: NCL; DIMENSION AS PER SITE CONDITION; SPECIAL FEATURES: FIXED;Providing and fixing Eco 3000 Series Windows fabricated from roll formed sections made of Galvanized Steel Colour Coated/Powder Coated (Base Steel as per IS 513 "D" quality, Galvanized as per IS 277 with Zinc of 120 grams/Sq. Mtr.) with total coated thickness of 0.60 mm. Coated Sections should be with Primer Coat of Epoxy Primer of 5-7 microns thick, finish painted with Polyester Paint of 12-16 microns thick and back coated with Alkyd backer of 5-7 microns, or Powder Coated with pure Polyester Powder up to 50-60 microns thick.Section for frame should be 48mm x 50mm, Section for Mullion should be of 48mm x 50mm, Section for Glazed Shutter Frame should be of 47mm x 20mm, and Section for Fixed Glass Bead should be of 12mm x 12mm.Frame and Shutter Frame Sections should be cut to length and metre joined with Polypropylene Corner Brackets. Mullion Section should be joined with Frame/Mullion using Nylon Mullion Cap. Ethyl Propylene Diamine Monomer (EPDM) Gasket should be used all around glass in shutter.Each Glazed Shutter should be provided with S.S. Pivot Hinges-1set, Seccolor Handle & Seccolor Stay.Window Frame should be fixed to brick/concrete masonry by using Nylon self expanding caps and driving MS electroplated 80mm long screws into the caps through frames. (after fixing the windows, gap shall be filledup by sellicon sealant , gaps more than 5mm shall be filled with backer rod approved).Glass shutter & Fixed Glass portions should be provided with a glass of 5MM Plain Float Glass.Windows should be provided with Grill made of 10mm sq. MS Bars welded to at 150mm center-to-center, 6mm x 12mm MS flat. Total grill unit should be powder coated and fixed to window frame with screws.The rates shall include P/F of all hardware as per site requirement.	4.00	10.00	0.00	14.00	SQM		
93	INJECTION GROUTING - USE OF COMPACTION GROUTING TECHNIQUE injection of very stiff grout material to densify the treated soils by radially displacing the soil particles into a closer spacing.	47.50		0.00	47.50	SQM		
94	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centring, shuttering, finishing and reinforcement - All work upto plinth level-1:1.5:3 (1 Cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	0.00	76.00	0.00	76.00	Cum		
95	6 mm cement plaster of mix : 1:3 (1 cement: 3 fine sand)	0.00	115.00	0.00	115.00	SQM		
96	Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade. New work (two or more coats) over and including water thinnable priming coat with cement primer (13.41.1-AR210)	0.00	350.00	150.00	500.00	Sqm		
97	Demolishing R.C.C. work manually /by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.(15.3-AR268)	0.00	30.00	0.00	30.00	Cum		
98	Extra for cutting reinforcement bars manually/ by mechanical means in R.C.C. or R.B. work (Payment shall be made on the cross sectional area of R.C.C. or R.B. work) as per direction of Engineer-In-charge. (15.5-AR269)	0.00	35.00	0.00	35.00	Sqm		
99	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with line sand etc. all complete as per the direction of Engineer-in-charge.	0.00	250.00	0.00	250.00	Sqm		
100	SUPPLY, INSTALLATION OF KK MAKE FACTORY MADE 70MM THICK PRECAST RCC TRENCH COVER OF VARIOUS SIZE UPTO 1500 MM IN LENGTH, 300 MM IN WIDTH WITH TMT STEEL REINFORCEMENT BAR OF 8MM DIA 4NOS ALONG LENGTH AND 6MM DIA C/C SPACING OF 150 MM & TWO NO. GI HOOKS OF FOR LIFTING, MINIMUM GRADE OF CEMENT CONCRETE M-30 GRADE, TRENCH COVER SHALL HAVE BOTH KK AND BYPL LOGO WITH FOLLOWING SIZE. 300 LENGTH X 1400 WIDTH X 70MM THICKNESS-536 PCS 300 LENGTH X 11300 WIDTH X 70MM THICKNESS-89 PCS	0	100.00	244.00	344.00	Each		
101	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts, etc. upto floor five level excluding cost of centring, shuttering, finishing and reinforcement. : 1:1.5:3 (1 Cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size) (5.2.2-AR34)	0	10.00	0.00	10.00	CUM		
102	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 @2.20kg/10 sqm).(13.46.1-AR214)	0	0.00	350.00	350.00	Sqm		

S.No.	Description	Quantities				Unit	Rate (In Rs.) e/x GST	Amount (In Rs.) e/x GST
		PART A	PART B	PART C	Total Quantities			
103	Providing and fixing false ceiling at all heights with integral densified calcium silicate reinforced with fibre and natural filler false ceiling tiles of Size 595x595mm of approved texture, design and patterns as per CPWD Specification 2019, to be laid in true horizontal level suspended on inter-locking metal T-Grid of hot dipped galvanised iron section of 0.33mmthick (galvanized @ 120 grams per sqm including both sides)comprising of main-T runners of size 24x38 mm of length 3000 mm,cross - T of size 24x32 mm of length 1200 mm and secondaryintermediate cross-T of size 24x32 mm of length 600mm to formgrid module of size 600 x 600 mm, suspended from ceiling usinggalvanised mild steel items (galvanizing @ 80 grams per sqm) i.e. 12x50 mm long dash fasteners, 6 mm dia fully threaded hanger rod upto 1000 mm length and L-shape level adjuster of size 76x25x25x1.6 mm fixed with grid and Z cleat of size 25x37x25x1.6mm thick with precut hole on both 25mm flange to pierce into 12x50mm or even bigger size dash fastener if require, fixed with Glavanised iron perimeter wall angle or size 24x24x0.40 mm of length 3000 mm to be fixed on periphery wall / partition with the help of plastic rawl plugs at 450mm center to center and 40 mm long dry wall S S screws. The workshall be carried out as per specifications, drawing and as per directionsof the Engineer-in Charge. With 15 mm thick tegular/bult edged without perforation plain/designer light weight calcium silicate Anti-Microbial Bio-Safe coated false ceiling tiles Confirming to JIS-Z2801 and ASTM G-21	0	0.00	50.00	50.00	Sqm		
104	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge. Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix)	0	0.00	2.00	2.00	CUM		
105	Filling available excavated earth (excluding rock) in trenches plinth, sides of foundations etc. in layers not exceeding 20 cm in depth : consolidating Ea deposited layer by ramming and watering, lead upto 50 m and lift upto 1.5 m (2.25-AR15)	0	0.00	15.00	15.00	CUM		
106	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centring, shuttering, finishing and reinforcement – All work upto plinth level 1:2:4 (1 cement : 2 coarse sand: 4 graded stone aggregate 20 mm nominal size).	0	0	1	1.00	CUM		
107	Providing and laying in position ready mixed M-25 grade concrete for reinforced cement concrete work, using cement content as per approved design mix, manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work, including pumping of R.M.C. from transit mixer to site of laying , excluding the cost of centering, shuttering finishing and reinforcement, including cost of admixtures in recommended proportions as per IS : 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge. (Note :- Cement content considered in this item is @ 330 kg/cum). All works upto plinth level (5.37.1)	0	0	70	70.00	CUM		
108	Providing/fixing by welding (IRC fabric) welded mesh of size 25x75 mm of weight not less than 7.75 kg/ sqm to the frame of MS angles, tees, etc. including priming coat of approved brand. (AR85)	0	0	501	501.00	KG		
109	P/F drainage pump of approved quality and make(cromton ,greaves make , KIRLOSKER / KSB /WASP) pump 5 HP .3 phase as direction of Engineer-in charge	0	0	2	2.00	Each		
110	Supplying and stacking of good earth with fine mix good building malba at site including royalty and carriage for all leads & lifts	0	0.00	33	33.00	Cum		
Total Cost e/x GST@18% of Package I								

ATTACHMENT-II

PACKAGE-II-Price Breakup

PART-A-Construction of MMG/MLCC -A Block Jhilmil Industrial Area

PART-B-Civil Repairing works at Complaint Centre, B Block, Preet Vihar, Laxmi Nagar

S.No	Description	Quantities		Total Quantities	Unit	Rate (In Rs.)e/x GST	Amount (In Rs.) e/x GST
		PART-A	PART-B				
CIVIL WORK							
1	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 disposal of excavated earth, lead upto 50 m and lift upto 1.5 m, disposed earth to be levelled and neatly dressed : All kinds of soil.	624.00	50.00	674.00	CUM		
2	Extra for every additional lift of 1.5 m or part thereof in excavation /banking excavated or stacked materials. All kinds of soil	412.00	0.00	412.00	CUM		
3	Close timbering in trenches including strutting, shoring and packing cavities (wherever required) complete. (Measurements to be taken of the face area timbered). Depth not exceeding 1.5 m	274.00	0.00	274.00	SQM		
4	Close timbering in trenches including strutting, shoring and packing cavities (wherever required) complete. (Measurements to be taken of the face area timbered).Depth exceeding 1.5 m but not exceeding 3 m	86.00	0.00	86.00	SQM		
5	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth,consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	618.00	0.00	618.00	CUM		
6	Supplying chemical emulsion in sealed containers including delivery as specified. Chlorpyrifos/ Lindane emulsifiable concentrate of 20%	262.00	0.00	262.00	Ltr		
7	Diluting and injecting chemical emulsion for anti-termite treatment (excluding the cost of chemical emulsion) in bases of footings, vertical faces of brick wall/ RCC column, under floors, along external wall, apron , etc complete as per relevant IS codes (plinth area shall be measured for payment): With Chlorpyrifos/ Lindane E.C. 20% with 1% concentration	258.00	0.00	258.00	SQM		
8	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	60.00	50.00	110.00	CUM		
9	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth.	50.00	0.00	50.00	SQM		
10	Providing and laying in position ready mixed or site batched design mix cement concrete for plain cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana/Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering and finishing as per direction of the engineer-in-charge; for the following grades of concrete. (make- ACC, Lafarge, Afcon, Ultra Tech) Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 110% of the minimum specified cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement. All works upto plinth level : Concrete of M10 grade with minimum cement content of 220 kg /cum	56.00	0.00	56.00	CUM		
11	Providing and laying in position ready mixed M-25 grade concrete for reinforced cement concrete work, using cement content as per approved design mix, manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work, including pumping of R.M.C. from transit mixer to site of laying , excluding the cost of centering, shuttering finishing and reinforcement, including cost of admixtures in recommended proportions as per IS : 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability & Corrosion Resistance and water proofing as per direction of the Engineer - in - charge. (Note :- Cement content considered in this item is @ 330 kg/cum). All works upto plinth level (5.37.1) Make -ACC, Altratech, lafarge	300.00	0.00	300.00	CUM		
12	Providing and laying in position ready mixed M-25 grade concrete for reinforced cement concrete work, using cement content as per approved design mix, manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work, including pumping of R.M.C. from transit mixer to site of laying , excluding the cost of centering, shuttering finishing and reinforcement, including cost of admixtures in recommended proportions as per IS : 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability Corrosion Resistance and water proofing as per direction of the Engineer - in - charge. (Note :- Cement content considered in this item is @ 330 kg/cum). All works above plinth level upto floor V level (5.37.2-AR40)) Make -ACC, Altratech, lafarge	128.00	0.00	128.00	CUM		
13	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:1½:3 (1 Cement: 1½ coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	2.00	20.00	22.00	CUM		
14	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:4:8 (1 Cement : 4 coarse sand (zone-III) derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources)	28.00	13.00	41.00	CUM		
15	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor etc., up to floor five level, excluding the cost of centering, shuttering and finishing: 1:1½:3 (1 cement : 1½ coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	2.00	0.00	2.00	CUM		
16	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centring, shuttering, finishing and reinforcement - 1:1.5:3 (1 Cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	56.00	0.00	56.00	CUM		
17	Reinforced cement concrete work in beams, suspended floors, roofs having slope upto 15°, landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases upto floor five level excluding the cost of centring, shuttering, finishing and reinforcement with 1:1.5:3 (1 Cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	30.00	5.00	35.00	CUM		
18	Centring and shuttering including strutting, propping etc. and removal of form work for : Foundations, footings, bases of columns.	84.00	4.00	88.00	SQM		
19	Centring and shuttering including strutting, propping etc. and removal of form for: Suspended floors, roofs, landings, balconies and access platform	732.00	10.00	742.00	SQM		
20	Centring and shuttering including strutting, propping etc. and removal of form for: Lintels, beams, plinth beams, girders, bressumers and cantilevers	406.00	0.00	406.00	SQM		
21	Centring and shuttering including strutting, propping etc. and removal of form for: Columns, Pillars, Piers, Abutments, Posts and Struts	510.00	0.00	510.00	SQM		

S.No	Description	Quantities		Total Quantities	Unit	Rate (In Rs.)e/x GST	Amount (In Rs.) e/x GST
		PART-A	PART-B				
22	Centring and shuttering including strutting, propping etc. and removal of form for: Stairs, (excluding landings) except spiral-staircases	108.00	0.00	108.00	SQM		
23	Extra for additional height in centering, shuttering where ever required with adequate bracing, propping etc., including cost of de-shuttering and decentering at all levels, over a height of 3.5 m, for every additional height of 1 metre or part thereof (Plan area to be measured). Suspended floors, roofs, landing, beams and balconies (Plan area to be measured)	554.00	0.00	554.00	SQM		
24	Reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete. cold twisted bars (Make- TATA/ SAIL)	60000.00	8000.00	68000.00	KG		
25	Add for plaster drip course/groove in plastered surface or moulding to R.C.C. projections	190.00	10.00	200.00	M		
26	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in cement mortar 1 : 4 (1 cement : 4 coarse sand)	46.00	6.00	52.00	CUM		
27	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : Cement mortar 1:4 (1 cement : 4 coarse sand)	197.00	12.00	209.00	CUM		
28	Providing and fixing 18 mm thick gang saw cut, mirror polished, pre-moulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels. Granite stone slab colour black, Cherry/Ruby red : Area of slab upto 0.50 sqm	110.00	0.00	110.00	SQM		
29	Providing and fixing 18 mm thick gang saw cut, mirror polished, pre-moulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels. Granite stone slab colour black, Cherry/Ruby red : Area of slab over 0.50 sqm	74.00	0.00	74.00	SQM		
30	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	200.00	0.00	200.00	KG		
31	P/F MS chequered plate i/c cutting, straightening, rounding of edges, making lifting arrangement & fixing by welding to M.S angle frame etc. (AR142)	100.00	0.00	100.00	KG		
32	Providing and laying Vitrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @3.3 kg/sqm including grouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only . Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently and easily. Double charge vitrified tile polished finish of size. Size of Tile 800 x 1200 mm	384.00	0.00	384.00	SQM		
33	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 (1cement: 3 coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including grouting the joint with white cement & matching pigments etc. complete. Size of Tile 800x800 mm	12.00	0.00	12.00	SQM		
34	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.). Make- Jindal Ozone TATA Sale	318.00	0.00	318.00	KG		
35	52 mm thick cement concrete flooring with concrete hardener topping, under layer 40 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and top layer 12 mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate 6 mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufacturer's specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete.	184.00	85.00	269.00	SQM		
36	Cement plaster skirting (upto 30 cm height) with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement. 18 mm thick	16.00	11.00	27.00	SQM		
37	Providing and fixing glass strips in joints of terrazzo/cement concrete floors. - 40 mm wide and 4 mm thick.	332.00	235.00	567.00	M		
38	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement :2 coarse sand : 4 graded stone aggregate of 10 mm and down gauge) including finishing with cement mortar 1:3 (1 cement: 3 fine sand) as per standard design : In 75 x75 mm deep chase	94.00	105.00	199.00	M		
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 m x1 m x 400 micron, finished with 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.	8.00	16.00	24.00	Each		
40	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes. 110 mm diameter metre 319.75	80.00	55.00	135.00	M		
41	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion. Single tee with door 12.42.3.2 110x110x110 mm	16.00	0.00	16.00	Each		
42	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion. Bend 87.5° 110 mm bend	8.00	15.00	23.00	Each		
43	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required: White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	2.00	1.00	3.00	Each		
44	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including W.C. pan with ISI marked white solid plastic seat and lid	6.00	1.00	7.00	Each		

S.No	Description	Quantities		Total Quantities	Unit	Rate (In Rs.)e/x GST	Amount (In Rs.) e/x GST
		PART-A	PART-B				
45	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm and 340x410x265 mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required : One urinal basin with 5 litre white P.V.C. automatic flushing cistern	6.00	2.00	8.00	Each		
46	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require: White Vitreous China Flat back wash basin size 550x400 mm with single 15 mm C.P. brass pillar tap	5.00	2.00	7.00	Each		
47	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. Flexible pipe- 32 mm dia	5.00	4.00	9.00	Each		
48	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. 20 mm nominal dia Pipes (Internal work - Exposed on wall)	250.00	32.00	282.00	M		
49	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. 20 mm nominal dia Pipes (Concealed work, including cutting chases and making good the walls etc.)	200.00	27.00	227.00	M		
50	Providing and fixing brass bib cock of approved quality : 20 mm nominal bore	5.00	4.00	9.00	Each		
51	Providing and fixing brass stop cock of approved quality : 20 mm nominal bore	5.00	4.00	9.00	Each		
52	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet : 150 mm diameter	5.00	1.00	6.00	Each		
53	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	1000.00	5000.00	6000.00	PER LITRE		
54	Providing and Laying 110 mm dia PVC pipe (Heavy duty-working pressure 6Kg/cm2) of Prakash or equivalent make as per required slope for sewer line including jointing etc. complete as per direction of Engineer-in-charge (Wt. of pipe-22 Kg approx).	300.00	45.00	345.00	M		
55	Providing and fixing UPVC (SWR) pipes Class B conforming to IS 13592 for soil, waste and vent pipes including all fittings rubber ring type (plain or access door) e.g. bends, junctions, cowls, offsets, access pieces etc., jointing with rubber ring joints(a) 80 mm dia	200.00	10.00	210.00	M		
56	Providing and fixing UPVC floor traps, self closing type having 50mm lead water seal with or without vent arm etc. complete including cost of cutting and making good the walls and floors wherever required. (110 x80 mm)	6.00	5.00	11.00	Each		
57	P/F of CP jalli of appd design and shape: 100 mm dia. (AR522)	6.00	5.00	11.00	Each		
58	Providing and fixing on wall face unplasticised - PVC moulded fittings/accessories for unplasticised - Rigid PVC rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion. Bend 87.5°-110 mm bend. (12.42.5.2-AR180)	20.00		20.00	Each		
59	Providing and fixing on wall face unplasticised - PVC moulded fittings/accessories for unplasticised - Rigid PVC rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion. coupler- 110 mm. (12.42.1.2-AR174)	20.00	15.00	35.00	Each		
60	Providing and Fixing bevelled edge mirror of superior quality glass (Modi /Sant Gobain) complete with 6 mm thick hard board fixed to wooden cleats with cp brass screws and washers etc complete. (17.31-AR508)	5.00	1.85	6.85	Sqm		
61	Providing and fixing health faucet hindware or parryware make as per direction of EIC (Based on MR)	5.00	2.00	7.00	Each		
62	Providing and fixing C.P. brass angle valve for basin mixer and gyser points of approved quality conforming to IS:8931 a) 15 mm nominal bore : 15 mm nominal bore (18.53.1-AR423)	5.00	12.00	17.00	Each		
63	Providing and fixing uplasticised PVC connection pipe with brass unions: 45 cm length, 15 mm NB, (18.21.2.1-AR390)	5.00	8.00	13.00	Each		
64	Providing and fixing C.P. brass long body bib cock hindware/parryware conforming to IS standards and weighing not less than 690 gms: 15 mm nominal bore. (18.51.1-AR421)	8.00	6.00	14.00	Each		
65	Point wiring in PVC conduit, with modular type switch : Wiring for light point / fan point / exhaust fan point / call bell point with 1.5 sq.mm FR PVC insulated copper conductor single core cable in surface / recessed PVC conduit, with modular switch, modular plate, suitable G.I. box and earthing the point with 1.5 sq.mm. FR PVC insulated copper conductor single core cable etc as required. Group B	5.00	40.00	45.00	PNT		
66	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.15/16 A switch (DSR-1.24.3)	25.00	25.00	50.00	Each		
67	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required6 pin 15/16 A socket outlet Each (DSR- 1.24.5)	25.00	25.00	50.00	Each		
68	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required. 5/6 amps switch (AR582)	5.00	40.00	45.00	Each		
69	"P/F URINAL PARTITIONS 3/4" THK GRANITE 600 MMX1350 MM OF APPD DESIG AND SHADE INCLUDING FIXING IN THE WALLS AS REQUIRED BY CHASING & MAKING GOOD THE WALLS WHEREVER REQUIRED ALSO PROVIDING EDGE MOULDING TO THE GRANITE PARTITION COMPLETE JOB AS PER INSTRUCTION OF EIC.	5.00	3.00	8.00	SQM		
70	Providing and fixing square-mouth S.W. gully trap class SP-1complete with C.I. grating brick masonry chamber with 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 : 100x100mm size P type with common burnt clay F.P.S (non modular) bricks of class designation 75 (19.4.1.1-AR446)	5.00	5.00	10.00	Each		
71	12 mm cement plaster of mix: 1:4 (1 cement : 4 coarse sand)	1078.00	320.00	1398.00	SQM		
72	15 mm cement plaster on rough side of single or half brick wall of mix 1:4 (1 cement : 4 coarse sand)	594.00	290.00	884.00	SQM		
73	6 mm cement plaster of mix : 1:3 (1 cement: 3 fine sand)	732.00	345.00	1077.00	SQM		
74	Neat cement punning	298.00	42.00	340.00	SQM		
75	Extra for providing and mixing water proofing material in cement plaster work in proportion recommended by the manufacturers.(Per Bag of 50 KG cement used in the mix)	40.00	0.00	40.00	Each		
76	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	1282.00	985.00	2267.00	SQM		
77	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface : Water thinnable cement primer	1282.00	985.00	2267.00	SQM		
78	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)	34.00	200.00	234.00	SQM		

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		PART-A	PART-B				
79	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade :Two or more coats on new work	1282.00	985.00	2267.00	SQM		
80	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade. Two or more coats on new work.	10.00	305.00	315.00	SQM		
81	Washed stone grit plaster on exterior walls of height upto 10 metre above ground level, in two layers, under layer 12mm cement plaster 1:4 (1cement: 4 coarse sand), furrowing the under layer with scratching tool, applying cement slurry on the under layer @ 2 Kg of cement per square metre, top layer 15mm cement plaster 1:1/2:2 (1 cement: 1/2 coarse sand :2 stone chipping 10mm nominal size), in panels with groove all around as per approved pattern, including scrubbing and washing the top layer with brushes and water to expose the stone chippings, complete as per specification and direction of Engineer-in- charge (Payment for providing grooves shall be made separately).	382.00	950.00	1332.00	SQM		
82	Forming groove of uniform size from 12x12mm and upto 25x15mm in the top layer of washed stone grit plastered surface as per approved pattern, including providing and fixing aluminum channels of appropriate size and thickness (not less than 2 mm), nailed to the under layer with rust proof screws and nails and finishing the groove complete as per specifications and direction of the Engineer-in-Charge.	1032.00	1695.00	2727.00	M		
83	Extra for using Silver cement in place of ordinary cement in the top layer of the item of washed stone grit plaster.	382.00	0.00	382.00	SQM		
84	Extra for providing & mixing the dark shade pigment in top layer of washed stone grit plaster. (AR-55)	382.00	0.00	382.00	SQM		
85	Extra for using marble chips of size 7 to 10 mm nominal size in place of stone chipping 10 mm nominal size in Washed stone grit plaster on exterior walls (AR158)	382.00	0.00	382.00	SQM		
86	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.	34.00	950.00	984.00	SQM		
87	Supplying and stacking at site. Good earth	78.00	0.00	78.00	CUM		
88	Providing and erecting 2.00 metre high temporary barricading at site; each panel of size 2.50mx2.00m made of 40x40x6mm angle iron or50x50x3mm hollow MS tube posts/horizontal members/bracings covered with 1.63mm thick MS sheet. The sheet shall be fixed with 30x5mm MS flat by suitable welding/ riveting. The panels shall be made so that gap of 50cm above the ground is available making overall height as 2.5m. MS channel ISLC 75 @ 5.70 kg/m, 50cm long shall be provided at the bottom having oval shaped holes of size 50x25mm at both ends with 50cm long MS angle 40x40x6mm bracing. Suitable arrangement shall be made to fix the barricading to avoid from overturning by providing 250mm long expansion fasteners at both ends. The work shall be executed as per drawing/direction of Engineer-in-Charge which includes writing and painting, arrangement for traffic diversion such as traffic signals during construction at site for day and night, glow lamps, reflective signs, marking, flags, caution tape as directed by the Engineer-in-Charge. The barricading provided shall be retained in position at site continuously i/c shifting of barricading from one location to another location as many times as required during the execution of the entire work till its completion. Rate include its maintenance for damages, painting, all incidentals, labour materials, equipments and works required to execute the job. The barricading shall not be removed without prior approval of Engineer in-Charge.(Note :- One time payment shall be made for providing barricading from start of work till completion of work i/c shifting. The barricading provided shall remain to be the property of the contractor on completion of the work).	92.00	0.00	92.00	M		
89	Taking out existing CC interlocking paver blocks from footpath/ central verge, including removal of rubbish etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-Charge.	110.00	0.00	110.00	SQM		
90	Providing and laying factory made chamfered edge Cement Concrete paver blocks in footpath, parks, lawns, drive ways or light traffic parking etc, of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of sand, compacting and proper embedding/laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand. complete all as per direction of Engineer-in-Charge. 60mm thick cement concrete paver block of M-35 grade with approved colour, design & pattern.	15.00	0.00	15.00	SQM		
91	Polyurethane Waterproofing by Dr.Fixit Flexi PU 270(I) : Removing & chipping off of existing losse plaster. Clean the surface from contaminants with brush. Remove any sharp protrusion on the blinding layer by chipping and local repairs. Surface Preparation: All surfaces which are to receive the coating must be free from oil, laitance, grease, wax, dirt or any other form of foreign matter which might affect adhesion. Cut back any protrusions. Typically concrete surfaces can be cleaned using high pressure water jet or by proper wire brushing/ grinder.All cracks, construction joints,honey combed/damaged surface to be repair with PMM and cracks to be chase out by cutting 25mm x 25mm "V" shape groove all along the crack, cleaning cracks and sealing it using Mesto Grout HS , curing etc., all complete as per the manufactureres specification and direction of engineer-in-charge. L Shape, Augular Fillet: Providing 50 mm X 50 mm angle fillets on the vertical up- stands, parapet wall junction corners, service units and properly dressed by preparing polymer modified mortar with Pidicrete URP or equivalent in the ratio of 1:3 by adding polymer 10% by weight of the cement, add little water, until the required consistency is achieved. Injection Grouting: Providing and applying injection grouting treatment by chemical injection grout process at construction joints, wall joints, honey comb areas etc. in concrete surface or the area using nozzles of min 25-50mm deep in slabs along with construction joints consisting of injection cement slurries of different viscosities under pressure by pump using injection grout waterproofing chemical (Pidicrete AM) mixed with neat cement slurry and sealing off nozzles after the injection operation. Screeding: Providing and laying of average 75mm thick (or suitable thickness for necessary slope) concrete screed of minimum M 20 grade concrete. PU Waterproofing Coating: Supplying and applying, Dr.Fixit Flexi PU 270(I) highly flexible is a liquid-applied, highly permanent elastic, cold applied and cold curing single component polyurethane cold applied coating system water proofing liquid membrane after applying Dr.Fixit Flexi PU 270(I). Over the primer coat . Polyurethane Dr.Fixit Flexi PU 270(I), shall be laid using Brush/roller in 3 layers to attain a seamless state of membrane. After applying the first coat of Dr.Fixit Flexi PU 270(I) leave dry for 8-10 hours, then apply the second coat of Dr.Fixit Flexi PU270(I) leave dry for 8-10 hours. Then the final coat of Dr.Fixit Flexi PU 270(I) leave dry for 8-10 hours. The layers of the liquid membrane to be terminated properly, properties polyurethane membrane with elongation of 400% as per ASTM D 412,tensile strength of 4 Nsqmm as per ASTM D412,shore hardness(shore A scale) 65 as per ASTM D 2240,adhesion to concrete > 2.0 N/mm2 as per ASTM D 903 applied in 3 coats at a total consumption of min. 2 Kg./ Sq.Mt.	298.00	295.00	593.00	SQM		

S.No	Description	Quantities		Total Quantities	Unit	Rate (In Rs.)e/x GST	Amount (In Rs.) e/x GST
		PART-A	PART-B				
92	Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C., kitchen and the like as required as per direction of the Engineer-in-charge, consisting of : (i) 1st course of applying cement slurry @ 4.4 kg/sqm mixed with water proofing compound conforming to IS 2645 in recommended proportions including rounding off junction of vertical and horizontal surface. (ii) 2nd course of 20 mm cement plaster 1:3 (1 cement : 3 fine sand) mixed with water proofing compound in recommended proportion including rounding off junction of vertical and horizontal surface. (iii) 3rd course of applying blown or residual bitumen applied hot at 1.7 kg. per sqm of area. (iv) 4th 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).	13.50	0.00	13.50	SQM		
93	Supply, installation Heavy duty factory made precast RCC trench covers (KK make) factory made 50mm thick of various size upto 1500 mm in length, 300 mm in width with TMT steel reinforcement bar of 10mm dia 4nos along length and 8mm dia c/c spacing of 150 mm & two no. GI hooks of for lifting, minimum grade of cement concrete M-35 grade, trench cover shall have both KK and BYPL logo.	30.00	0.00	30.00	SQM		
94	Supply & Installation of 46mm thick Metal fire check door of 120 minutes' fire rating confirming to BS: 476 Part 22 and IS: 3614 Part II fabricated with 2 nos. 1.2mm thick galvanized sheet with infill of fire rated Acrylic Sealant and non-combustible core bonded to both faces of sheet with lock seam joints at stile edges and internal reinforcement at top, bottom and stile edges for Fire Rating. The door frames are manufactured from 1.6mm thick galvanized steel sheet pressed form to double rebate profile of size 143mm x 57mm duly filled with vermiculite based concrete mix. The door frames and door shutters are finished with powder coated Smoke grey finish.(as per approved shade)	16.00	0.00	16.00	SQM		
95	Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid decorative type 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/mm2, modulus of elasticity 850 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. WPC to be laminated with PVC foil of minimum 14 microns thick of approved design pasted with hot melt adhesive on both faces of shutter and fixing with stainless steel butt hinges of required size with necessary full body threaded star headed counter sunk S.S screws, all as per direction of Engineer-In- Charge. (Note: stainless steel butt hinges and necessary S.S screws shall be paid separately) 30 mm thick	32.20	0.00	32.20	SQM		
96	Providing and fixing pressed steel door frames conforming to IS: 4351, manufactured from commercial mild steel sheet of 1.60 mm thickness, including hinges, jamb, lock jamb, bead and if required angle threshold of mild steel angle of section 50x25 mm, or base ties of 1.60 mm, pressed mild steel welded or rigidly fixed together by mechanical means, including M.S. pressed butt hinges 2.5 mm thick with mortar guards, lock strike-plate and shock absorbers as specified and applying a coat of approved steel primer after pre-treatment of the surface as directed by Engineer-in-charge: Fixing with adjustable lugs with split end tail to each jamb.	72.50	0.00	72.50	M		
97	Providing and fixing M.S. Tubular frames for doors, windows, ventilators and cupboard with rectangular/ L-Type sections, made of 1.60 mm thick M.S. Sheet, joints mitred, welded and grinded finish, with profiles of required size, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer. Fixing with 15x3 mm lugs 10 cm. long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size).	40.00	0.00	40.00	Kg		
98	Fastener:- Supply of Fasteners 10 X 80 mm (08 Nos for Each Door) Hilti make	112.00	0.00	112.00	Each		
99	Hinges:- Supply of SS Ball Bearing Hinges of Size 102 X 76 X 3mm Complete With Ss Screws of DORMA (Model No : 3090F) Make	56.00	0.00	56.00	Each		
100	Vision Panel:- Supply of 6 MM Thick Clear Glass - Schott- Pyran Make- (200 X 300mm)	14.00	0.00	14.00	Each		
101	Door Closer:-Supply of DORMA (Model No. TS - 78) Make Door Closer	14.00	0.00	14.00	Each		
102	SS D Handle :- Supply of 450 mm Long / 25 mm Dia / SS 304, Finish : Satin of DORMA (Model No. TGDIIH) Make	14.00	0.00	14.00	Pair		
103	Panic Bar S/L :-Supply of DORMA (Model No. PHCR 1000) Make Single Leaf Panic Bar Single Point, Silver Finish	14.00	0.00	14.00	Each		
104	Panic Trim:- Supply of DORMA (Model No. PHCR 2905) Make Panic Trim with Latch Handle	14.00	0.00	14.00	Each		
105	WINDOW, TYPE: GALVANIZED IRON STEEL PRE PAINTED; MATERIAL: GALVANIZED IRON STEEL PRE PAINTED;; WITH GLASS OF 5MM THICKNESS; MODEL: ECO 3000SERIES; MAKE: NCL; DIMENSION AS PER SITE CONDITION; SPECIAL FEATURES: OPENABLE; Providing and fixing Eco 3000 Series Windows fabricated from roll formed sections made of Galvanized Steel Colour Coated/Powder Coated (Base Steel as per IS 513 "D" quality, Galvanized as per IS 277 with Zinc of 120 grams/Sq. Mtr.) with total coated thickness of 0.60 mm. Coated Sections should be with Primer Coat of Epoxy Primer of 5-7 microns thick, finish painted with Polyester Paint of 12-16 microns thick and back coated with Alkyd backer of 5-7 microns, or Powder Coated with pure Polyester Powder up to 50-60 microns thick. Section for frame should be 48mm x 50mm, Section for Mullion should be of 48mm x 50mm, Section for Glazed Shutter Frame should be of 47mm x 20mm, and Section for Fixed Glass Bead should be of 12mm x 12mm. Frame and Shutter Frame Sections should be cut to length and metre joined with Polypropylene Corner Brackets. Mullion Section should be joined with Frame/Mullion using Nylon Mullion Cap. Ethyl Propylene Diamine Monomer (EPDM) Gasket should be used all around glass in shutter. Each Glazed Shutter should be provided with S.S. Pivot Hinges-1set, Seccolor Handle & Seccolor Stay. Window Frame should be fixed to brick/concrete masonry by using Nylon self expanding caps and driving MS electroplated 80mm long screws into the caps through frames. (after fixing the windows, gap shall be filled up by sellicon sealant). Glass shutter & Fixed Glass portions should be provided with a glass of 5MM Plain Float Glass. Windows should be provided with Grill made of 10mm sq. MS Bars welded to at 150mm center-to-center, 6mm x 12mm MS flat. Total grill unit should be powder coated and fixed to window frame with screws.	28.00	0.00	28.00	SQM		

S.No	Description	Quantities		Total Quantities	Unit	Rate (In Rs.) e/x GST	Amount (In Rs.) e/x GST
		PART-A	PART-B				
106	WINDOW, TYPE: GALVANIZED IRON STEEL PRE PAINTED; MATERIAL: GALVANIZED IRON STEEL PRE PAINTED;; WITH GLASS OF 5MM THICKNESS; MODEL: ECO 3000SERIES; MAKE: NCL; DIMENSION AS PER SITE CONDITION; SPECIAL FEATURES: FIXED; Providing and fixing Eco 3000 Series Windows fabricated from roll formed sections made of Galvanized Steel Colour Coated/Powder Coated (Base Steel as per IS 513 "D" quality, Galvanized as per IS 277 with Zinc of 120 grams/Sq. Mtr.) with total coated thickness of 0.60 mm. Coated Sections should be with Primer Coat of Epoxy Primer of 5-7 microns thick, finish painted with Polyester Paint of 12-16 microns thick and back coated with Alkyd backer of 5-7 microns, or Powder Coated with pure Polyester Powder up to 50-60 microns thick. Section for frame should be 48mm x 50mm, Section for Mullion should be of 48mm x 50mm, Section for Glazed Shutter Frame should be of 47mm x 20mm, and Section for Fixed Glass Bead should be of 12mm x 12mm. Frame and Shutter Frame Sections should be cut to length and metre joined with Polypropylene Corner Brackets. Mullion Section should be joined with Frame/Mullion using Nylon Mullion Cap. Ethyl Propylene Diamine Monomer (EPDM) Gasket should be used all around glass in shutter. Each Glazed Shutter should be provided with S.S. Pivot Hinges-1set, Seccolor Handle & Seccolor Stay. Window Frame should be fixed to brick/concrete masonry by using Nylon self expanding caps and driving MS electroplated 80mm long screws into the caps through frames. (after fixing the windows, gap shall be filled up by silicone sealant). Glass shutter & Fixed Glass portions should be provided with a glass of 5MM Plain Float Glass. Windows should be provided with Grill made of 10mm sq. MS Bars welded to at 150mm center-to-center, 6mm x 12mm MS flat. Total grill unit should be powder coated and fixed to window frame with screws.	12.00	0.00	12.00	SQM		
107	Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound, jointing tapes, finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with 12.5 mm thick tapered edge gypsum plain board conforming to IS: 2095- (Part I) :2011 (Board with BIS certification marks)	128.70	0.00	128.70	SQM		
108	FALSE CEILING IN ARMSTRONG FINE FISSURED BUTT EDGE TILES 595X595MM : PROVIDING & FIXING OF ARMSTRONG FINE FISSURED BUTT EDGE TILE CEILING "COMPLETE IN ALL RESPECTS USING ARMSTRONG CHANNELS, HANGERS ETC. ITEM " "COMPLETE WITH ALL EDGE CUT TILES AND REQUIRED CUTTING FOR LIGHTS, " "SPEAKERS, DETECTORS, DIFFUSERS, ETC. TILE CODE- ARMSTRONG FINE FISSURED NF BUTT EDGE (AR230) Make - GYPROC.	247.55	0.00	247.55	SQM		
109	S/F PVC conduit : Supplying and fixing of following sizes of PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required. 25mm (AR572)	200.00	0.00	200.00	M		
110	Circuit / sub-main wiring in PVC conduit : Wiring for circuit/ submain wiring along with earth wire with the following sizes of PVC insulated copper conductor, single core cable in surface/ recessed PVC conduit as required- 2 X 4 sq. mm + 1 X 4 sq. mm earth wire.	200.00	75.00	275.00	M		
111	Circuit/sub-main wiring in PVC conduit : Wiring for circuit/ submain wiring along with earth wire with the following sizes of PVC insulated copper conductor, single core cable in surface/ recessed PVC conduit as required- 2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	400.00	150.00	550.00	M		
112	Circuit/sub-main wiring in PVC conduit : Wiring for circuit/ submain wiring along with earth wire with the following sizes of PVC insulated copper conductor, single core cable in surface/ recessed PVC conduit as required- 2 X 6 sq. mm + 1 X 6 sq. mm earth wire	150.00	0.00	150.00	M		
113	Point wiring in PVC conduit, with modular type switch : Wiring for light point / fan point / exhaust fan point / call bell point with 1.5 sq. mm FR PVC insulated copper conductor single core cable in surface / recessed PVC conduit, with modular switch, modular plate, suitable G.I. box and earthing the point with 1.5 sq. mm. FR PVC insulated copper conductor single core cable etc as required. Group C (AR559)	116.00	0.00	116.00	Each		
114	P/F/T/C 6/16A 5 pin modular socket controlled by 16 A switch, (complete set modular). (AR693)	44.00	0.00	44.00	Each		
115	Providing, Fixing, Testing & Commissioning Of 3nos 6A 5pin socket & 1no 6A switch in 5 module plate. (AR760)	32.00	0.00	32.00	Each		
116	S / F light plug point modular type accessories : Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection, painting etc. as required. (For light plugs to be used in non residential buildings). (AR593)	18.00	0.00	18.00	Each		
117	S / F power plug point modular type accessories : Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 15 / 16 & 5 / 6 amps modular socket outlet and 15 / 16 amps modular switch, connection, painting etc. as required. (AR594)	22.00	0.00	22.00	Each		
118	Providing and fixing circular/hexagonal m.s. sheet ceiling fan box "with clamp of internal dia 140 mm, 73 mm height, 3 mm thick rim, " top and bottom lid of 1.5 mm m.s. sheet. lids shall be screwed into "m.s. box by means of 3 mm round headed screws, clamps shall be made "of 12 mm dia ms bar bend to shape as per std. drawing with overall length as 80 cm.	18.00	0.00	18.00	Each		
119	Supplying and fixing following rating, four pole, 415 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required. 63 Amps. (AR617)	2.00	0.00	2.00	Each		
120	S / F 'C' series. SP MCB : Supplying and fixing 5 amps to 32 amps rating, 240 volts. 'C' series, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. : Single pole (AR787)	16.00	0.00	16.00	Each		
121	S/F SP MCB DB consumer unit : Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board consumer unit, 240 volts. on surface/ recess, complete with tinned copper busbar, neutral busbar, earth bar, din bar, hinged front acrylic cover for the MCB knobs, detachable gland plate, interconnections, phosphatized and powder painted including earthing etc. as required. (But without MCB / RCCB / Isolator) : 2 + 8 way (AR785)	2.00	0.00	2.00	Each		
122	Providing and fixing of LED Tubelight of 40Watt as per direction of EIC	32.00	0.00	32.00	Each		

S.No	Description	Quantities		Total Quantities	Unit	Rate (In Rs.)e/x GST	Amount (In Rs.) e/x GST
		PART-A	PART-B				
123	Providing and fixing Industrial type Axial Exhaust fan of propeller type / axial type shall be provided for rooms with suitable drive motor, DOL starter, rain protection cowl with screen, grouting bolts etc. Fan for battery room shall be bifurcated type spark proof construction as per direction of Engineer incharge sweep of 600mm .(Make-Crompton).	10.00	0.00	10.00	Each		
124	Providing and fixing ceiling Fan 1400 mm of approved make.	6.00	0.00	6.00	Each		
125	Demolition and disposal from site as per MCD/DPCC norms of existing building (boundary wall if applicable)RCC work ,Brick work ,Steel work ,Door & windows ,Flooring ,False ceiling ,Grade slab , plinth protection electrical fitting ,Plumbing, foundation , boundary wall (if applicable) or any other items not mentioned above and taking out all material and giving recovery rate on sq feet basis of covered area.	534.00	0.00	534.00	Sqm		
126	LUM,LED,CEILING;36W;140-270V;600X600MM P/F/T/C LUMINAIRE,LED,TYPE:CEILING;POWER:36 W;VOLTAGE:140-270 V;LAMP SIZE:600X600 MM;MOUNTING:RECESSED;INGRESS PROTECTION:IP 20; MAKE:CROMPTON;MODEL:LCTLRN 36 FO CDL;ADDITIONAL INFORMATION:LED 36 W EFFICIENCY 85 PERCENT SURGE PROTECTION UP TO 2.5 KV: SYSKA / HAVELLS OR EQUIVALENT	20.00	0.00	20.00	NOS		
127	P/F Focus light 7 wt of syska or equivalent make	40.00	0.00	40.00	NOS		
128	Supply & Application of Under Deck Insulation Using 27 Kg Density 50 mm Thick EPS Slabs with using 4 Nos of 3 inch Length Plastic Stem and Wheel Properly Drilled and Nailed on the Ceiling. We will be responsible for supply of all necessary Insulation and ancillary materials and Skilled work men Tools & Shackles	350.00	0.00	350.00	SQM		
129	Supply & Application UltraTech Decor is coloured, textured and imprinted concrete M30 grade (min 100mm thickness) of approved colour and patterns manufactured by using UV resistant colour hardener with monolithic nature allows nothing to grow through gaps	100.00	0.00	100.00	SQM		
130	Providing and laying R. C.C. pavement of mix M-25 with ready mixed concrete from batching plant. The ready mixed concrete shall be laid and finished with screed board vibrator , vacuum dewatering process and finally finished by floating, brooming with wire brush etc. Corrosion Resistance and water proofing complete as per specifications and directions of Engineer-incharge. (The panel shuttering work and R/f Steel shall be paid for separately). (Note:- Cement content considered in this item is @ 330 kg/cum. Excess/less cement used as per design mix is payable/ recoverable separately). Make -ACC, Altratech, Lafarge	20	0.00	20.00	cum		
131	Providing and laying roof insulation with 40 mm thick impervious sprayed, closed cell free Rigid Polyurethane foam over deck insulation conforming to IS - 12432 Pt. III (density of foam being 40-45 kg/ cum), over a coat of polyurethane primer applied @ 6-8 sqm per litre, laying 400 G polythene sheet over PUF spray and providing a wearing course of 40 mm thick cement screed 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 20 mm nominal size) in chequered rough finish, in panels of 2.5 m x 2.5 m and embedding with 24 G wire netting and sealing the joints with polymerized mastic, all complete as per direction of Engineer-in-Charge.	300	0.00	300.00	SQm		
132	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	3000	4500	7500.00	KG		
133	Providing and fixing JSW/ Bluescope pre coated galvanized rib & flute design profile sheets (size, shape and pitch of corrugation as approved by Engineer in-charge) 0.50 mm (+0.05%) total coated thickness with Aluminium zinc coating 150 grams per sqm on both sides (AZ 150 as per AS 1397 - 1993), in minimum 300 mpa yield strength with super durable polyester colourboard XRW of approved color. Total coating thickness of 35 microns, comprising of 20 mm microns exterior coat on top surface and 5 micron reverse on back surface over 5 micron epoxy primer coats on both surface includin" side and laps of approved color and shade as per EIC. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length up to 12 meters 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 up to any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting toR size and shape wherever required. The sheets shall have brand make marking of manufacturer giving product details on the back of sheet at every regular interval for conforming genuinely of material. (Based on 12.50-A187)"	500	180	680.00	SQm		
134	Provide and install sacrificial zinc anodes Fosroc Galvashield XPI, to prevent the initiation of corrosion in steel reinforcement within chloride-contaminated or carbonated concrete, or in new construction. Each anode unit must contain a minimum of 60 grams of zinc, compliant with ASTM B418-95a, Type I, die-cast around steel tie wires, ensuring proper separation if multiple tie wires are used. The anodes must be encapsulated in a highly alkaline cementitious mortar with a pH of 14 or higher, free from sulfates, chlorides, bromides, or any other corrosive elements to steel. The encapsulating mortar should feature an interconnected and fine pore structure to dissolve, transport, and accommodate zinc corrosion products away from the anode surface without causing additional stress to the concrete cover, maintaining a pH > 14 near the uncorroded zinc for the specified service life. Anode units shall be supplied with integral, well-separated tie wires (without splices if multiple wires are used) and loop ties for direct attachment to the reinforcing steel. Anodes should be covered with a bed mortar with resistivity less than 50 kOhm-cm or similar to the parent concrete on cleaned steel reinforcement before applying passivation coating. The scope includes supply, installation, spacing calculations, quality assurance procedures, and must adhere to manufacturer specifications. Approved brand shall be M/s Fosroc Galvashield Anodes/Vector Galvashield/IPSS	516	50	566.00	Nos		
135	Felling trees of the girth (measured at a height of 1 m above ground level), including cutting of trunks and branches, removing the roots and stacking of serviceable material and disposal of unserviceable material.Beyond 60 cm girth upto and including 120 cm girth	0	1	1.00	Each		
136	Trimming of any no. of branches of any size of any type of tree overhanging on building / terrace so as to keep them away from building by at least 2.00 mtr at the time of trimming in such a way that they do not fall on the bldg, terrace, GI/ACC shed, live transformer, electric/telephone wire by any means Use axe, saw, ropes etc. as per site conditions. The trimmed material to be disposed to the MCD bin by any means. Nothing shall be allowed to be burnt or flamed. (AR494)	0	6	6.00	Each		
137	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	0	50	50.00	Sqm		
138	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), Jointing with grey cement slurry @ 3.3 kg/sqm including pointing the joints with white cement and matching pigment etc.,complete.	0	12	12.00	Sqm		

S.No	Description	Quantities		Total Quantities	Unit	Rate (In Rs.)e/x GST	Amount (In Rs.) e/x GST
		PART-A	PART-B				
139	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600 mm	0	150	150.00	Sqm		
140	Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade. New work (two or more coats) over and including water thinnable priming coat with cement primer	0	180	180.00	Sqm		
141	Extra for using white cement in place of ordinary cement in the top layer of the item of washed stone grit plaster.	0	950	950.00	Sqm		
142	Removing dry or oil bound distemper water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	0	1185	1185.00	SQM		
143	Providing and fixing double scaffolding system (cup lock type) on the exterior side of building/ structure, upto 25 metre height, above ground level including additional rows of scaffolding in stepped manner as per requirement of site, made with 40mm dia. M.S. tube 1.5 m centre to centre horizontal & vertical tubes joining with cup & lock system with M.S. tubes, M.S. tube challis, M.S. clamps and staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for execution of work of cleaning and / or pointing and/ or applying chemical and removing it thereafter. The scaffolding system shall be stiffened with bracings, runners, connection with the building etc, wherever required, if feasible, for inspection of work at required locations with essential safety features for the workmen etc. complete as per directions and approval of Engineer-in-charge .The elevational area of the scaffolding shall be measured for payment purpose .The payment will be made once only for execution of all items for such works.	0	150	150.00	SQM		
144	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of engineer in charge. Nominal concrete: 1:3:6 or richer mix (/c equivalent design mix)	0	12	12.00	CUM		
145	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	0	82	82.00	CUM		
146	Demolishing brick work manually /by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-In-charge.: In cement mortar	0	4	4.00	CUM		
147	Dismantling steel work in built up sections in angles, tees, flats and channels including all gusset plates, bolts, nuts, cutting rivets, welding etc. including dismembering and stacking within 50 m lead.	0	380	380.00	KG		
148	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead:For thickness of tiles 10 mm to 25 mm	0	130	130.00	SQM		
149	Demolishing mud phaska in terracing and disposal of material within 50 metres lead (15.27-AR282)	0	44	44.00	CUM		
150	Dismantling roofing including ridges, hips valleys and gutters etc., and stacking the material within 50 metres lead of: G.S. Sheet	0	155	155.00	SQM		
151	Dismantling old plaster or skirting, raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	0	625	625.00	SQM		
152	Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 metre openable length (total length 90 m), having 50 nos rounds per 6 metre length, upto 3 m height of wall with existing angle iron 'Y' shaped placed 2.4m or 3.00 m apart and with 9 horizontal R.B.T. reinforced barbed wire, stud tied with G.I. staples and G.I. clips to retain horizontal, including necessary bolts or G.I. barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape(R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mm with tape (0.52 mm thick) and weight 43.478 gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately)	0	98	98.00	M		
153	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with line sand etc. all complete as per the direction of Engineer-in-charge.	0	270	270.00	SQM		
154	Removing of damaged / broken / twisted IRC welded mesh fencing panels repairing of damaged / broken members , replacing new members if required, setting right the fencing panel in proper shape and size as per site requirement, re-fixing of panel at old location / new location in proper position and required alignment, Rate includes the cost of all labour , T & P , welding rods, welding machine, etc complete. The cost of structural steel and nut bolts, washers, IRC welded Mesh etc., if required will be paid separately.	0	75	75.00	SQM		
155	Providing and fixing 60 cm long PVC rain water spout in proper line and level in cement mortar 1:4 (1 cement : 4 fine sand) in the existing khurra level, dismantling wall/ pipe and making hole of required size for fixing of pipe, filling CC 1:3:6 (1cement :3 coarse sand : 6 graded stone aggregate 20mm nominal size) between wall and pipe, plastering both sides of walls with cement mortar 1:4 (1 cement :4 fine sand)and making the pipe joint leak proof.	0	16	16.00	Each		
156	Chipping of Unsound Concrete :Cleaning the concrete surface by removing dirt and debris, marking defective locations and Chipping/removing of loose/Unsound/weak concrete from slabs beams , columns etc by careful stripping untill hard surface is exposed, cutting the concrete to regular shape, wire brushing the exposed surface and removing debris from site complete as per direction of the Engineer - in - Charge. Upto 75mm average. Protective coating: Applying two coats of surface applied Bipolar Corrosion inhibitor FAIRCRETE C SURFACE APPLIED or equivalent as per manufacturer's specification and direction of the Engineer	0	92	92.00	SQM		
157	Providing and applying Reebaklens RR, a combination of acid based material, corrosion inhibitors and dispersing agents rust remover, for removal of all rust/ scales/corrosion from reinforcement bars before microconcreting or patch repair, having Specific Gravity 1.16-1.22. Reebaklens RR Shall be applied with brush for complete wetting of rusted metal surface at coverage of 2-2.5 Sqm/ltr. & allow it to react for 16-24 hours. After 24 hours, a white layer will appear which will protect further corrosion of metal /steel for about 5-7 days. Before applying any protective coating, the surface should be wire brushed and thoroughly cleaned for dust with dry cloth.	0	7	7.00	SQM		
158	Providing and applying Nitozinc Primer an epoxy based zinc rich anti corrosive primer having adhesive bond strength ≥ 1.5 MPa as per ASTM D4541, & shall comply to per ASTM B-117 to be applied on well cleaned, fully exposed and all loose scale , rust free rust free surface obtained by grit blasting or suitable means , to be done with coverage @4.5sqm/litres to achieve a minimum thickness of 40microns DFT or as per direction of Engineer-In charge.	0	7	7.00	SQM		

S.No	Description	Quantities		Total Quantities	Unit	Rate (In Rs.)e/x GST	Amount (In Rs.) e/x GST
		PART-A	PART-B				
159	Providing and applying Renderoc SP40 shrinkage compensated fiber reinforced polymer modified wet spray repair mortar on the prepared surface and curing with curing compound. The repair mortar used shall be single component and shall be mixed with water at water powder ratio of 0.18 and shall have drying shrinkage < 1000 microstrain as per ASTM C 157-93; compressive strength > 40 MPa ; Flexural Strength > 7 Mpa as per ASTM C 348, bond strength > 6 MPa as per ASTM C 1042, etc complete. Product used shall have CE (CE-29842) marking and compliance according to Construction Products Directive 89/106/EEC (CPD). Cost of curing compound shall be paid separately. Thickness 25mm. [Polymer Modified Mortar for Surface Repair (Lesser thickness & Larger surface area- Wet spray mortar)]	0	92	92.00	SQM		
160	Providing and applying Concure 1315, a acrylic polymer based non-degrading single component having solid content 33% to be applied over the freshly casted concrete members. The coating shall be applied using brush/roller/roller @ consumption of 200ml/coat/sqm. The coating shall comply to ASTM C1315 Type 2, & shall have moisture retention < 0.4 kg/m ² as per ASTM C156, Adhesion of tile cement : >0.5 N/mm ² [Curing Compound]	0	92	92.00	SQM		
161	Providing and laying of average 75mm thick (or suitable thickness for necessary slope) concrete screed of minimum M 20 grade concrete.	0	10	10.00	SQM		
162	Supply, precast RCC trench cover of various size varying 1500 mm in length, 450 mm in width & 50 mm in thickness, with 3 mm thick 50mm wide, ms strip all around welded to the steel reinforcement bar of 6mm dia, 100 mm centre to centre & two no. hooks of 12 mm dia bar for lifting gaving finishing top surface & grade of cement concrete M-20. (AR478)	0	10	10.00	SQM		
163	Drilling and fixing NRV injection packers in RC members for Epoxy or PU Injection including, drilling holes in structural members at the intervals as per recommendations/ requirements, cleaning the holes by air blower prior to fixing nozzles. Insert 12 mm dia., 50-75 mm long injection packers in cleaned holes with solvent free, moisture insensitive epoxy resin based putty or equivalent. Cut the packers by cut of wheel after completion of grouting without damaging structural elements.	0	485	485.00	Nos		
164	Pressure Grouting with Epoxy Resin: Perform pressure grouting using Conbextra EP10, a low viscous solvent-free two-component epoxy resin with a density of 1050 kg/m ³ . Ensure the epoxy resin has viscosity < 0.6 poise (ASTM D1200), compressive strength > 80 MPa (ASTM D 695), and bond strength > 4 MPa (ASTM C882). Use products with CE marking and compliance according to Construction Products Directive 89/106/EEC. Mix epoxy resin components in required quantities as per manufacturer's instructions. Fill the grouting gun with epoxy resin and maintain desired pressure using an air compressor. Grout the material through prefixed nozzles in structural elements until refusal, sealing the nozzles with epoxy putty afterward. Monitor and seal leakages through other nozzles as required. Complete the operation within the pot life of the material. Clean the grouting gun and accessories with thinner after the operation to prevent jamming.	0	42	42.00	KG		
165	Providing and applying bond coat on the prepared surface with two component epoxy based bonding coat Nitobond EP of Fosroc make or equivalent, having specific gravity 1.15 to 1.2 gm/cc,. The bonding agent shall be applied by brush & should remain in tacky state after application for a minimum period of 5-6 hrs at 20 deg C & 2-3 hrs at 30 deg C. Laying of reinstatement polymer modified mortar or micro concrete shall be completed within the overlay time of bonding coat.	0	95	95.00	SQM		
166	Construction of Horizontal and Vertical Seismic Band as per IS: 13925 by cutting chase in existing plaster by mechanical cutter, removing plaster, raking expose joints, cleaning, providing and fixing 3.25 mm dia (Gauge 10) Galvanised steel wire fabric mesh with spacing 25 mm x 25 mm to be fixed & firmly anchored to the surface of Brick masonry, stone masonry or concrete by means of GI steel shear key or bolts and tying the mesh to the bolts with GI binding wire including fixing the steel bars in position using epoxy resin anchor grout of approved make complete with cost of labour, tool & plants etc. complete as required for fixing as per direction of Engineer-in-charge.	0	240	240.00	SQM		
167	Constructing brick masonry manhole in cement mortar 1:4 (1 cement:4 coarse sand) RCC top slab with 1:2:4 mix (1 cement: 2 coarse sand: 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement: 4 coarse sand: 8 graded stone aggregate 40mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1cement: 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4(1 cement: 2 coarse sand: 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design : Inside size 90x80cm and 45cm deep including CI cover with frame(light duty) 455x610mm internal dimensions, total weight of cover and frame to be not less than 38kg (weight of cover 23kg and weight of frame 15kg) With common burnt clay F.P.S (non modular) bricks with class designation 7.5 (19.7.1.1-AR449)	0	2	2.00	Each		
168	supply of 9" dia exhaust fan with gravity louers & bird screen	0	3	3.00	Each		
169	Providing and Laying 150 mm dia PVC pipe (Heavy duty-working pressure 6Kg/cm2) of Prakash or equivalent make as per required slope for sewer line including jointing etc. complete as per direction of Engineer-in-charge (Wt. of pipe-22 Kq approx).	0	70	70.00	M		
170	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) upto haunches of S.W. pipes including bed concrete as per standard design : 150 mm dia SW pipe, (19.3.2-AR444)	0	70	70.00	M		
171	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) Laying brick bats with mortar using broken bricks/brick bats 25mm to 115mm size with 50% of cement mortar 1:5 (1cement : 5coarse sand) admixed with water proofing compound conforming to IS: 2645 and approved by Engineer -in charge over 20 mm thick layer of cement mortar of mix 1:5 (1cement : 5coarse sand) admixed with water proofing compound conforming to IS: 2645 and approved by Engineer -in charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs. (b) After two days of proper curing applying a second coat of cement slurry using 2.75 kg/ sqm of cement admixed with water proofing compound conforming to IS: 2645 and approved by Engineer -in charge. (c) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1cement :4coarse sand) admixed with water proofing compound conforming to IS: 2645 and approved by Engineer-in-charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3 mm deep. (d) 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. With average thickness of 120 mm and minimum thickness at khurra as 65 mm	0	275	275.00	Sqm		
172	Supply and apply Nitobond AR, an acrylic-based emulsified solution containing a minimum of 43% solids and compatible with cementitious materials. The bonding agent shall provide sufficient bond strength when applied directly on concrete or when mixed with neat cement. Ensure proper application to achieve effective adhesion between substrates and subsequent layers of cementitious materials, adhering to manufacturer's recommendations for optimal performance and durability in construction applications. Nitobond AR is particularly suitable when a longer working period after applying the bonding agent is required	0	120	120.00	Sqm		
173	Surface Preparation: Make a 'V' groove 5 mm wide and 5 mm deep over the crack line using an electrically operated angle grinder with a diamond concrete saw blade. Clean the groove thoroughly with an air blower as directed by the Engineer-in-charge.	0	65	65.00	M		

S.No	Description	Quantities		Total Quantities	Unit	Rate (In Rs.)e/x GST	Amount (In Rs.) e/x GST
		PART-A	PART-B				
174	Sealing with Epoxy Repair Mortar: Seal the exposed "V" groove (5 mm deep, 5 mm wide) with a solvent-free, moisture-tolerant, thixotropic, two-part structural adhesive and epoxy repair mortar cum surface leveling mortar. Ensure the epoxy repair mortar has compressive strength ≥ 60 N/mm ² (7 Days, BS 6319), flexural strength ≥ 20 N/mm ² (7 Days, BS 6319), and tensile strength ≥ 10 N/mm ² (7 days, ASTM C 307). Use products like NITOMORTAR S OF FOSROC, Sikadur®-31 of Sika, MasterBrace 2200 BASF, or equivalent of Pidilite.	0	65	65.00	M		
175	Supply and install reinforcement bars using Heavy Duty rebaring chemical Fosroc LOKFIX E77 for main bars and LOKFIX E45T for shear connectors, pure epoxy chemical anchor grout with ETA approval from DIBt, suitable for reinforcement bars ranging from 8 mm to 40 mm in diameter at specified embedment depths as per manufacturer's specifications. The epoxy chemical must have a working life period certified for 50 or 100 years as per ETA from DIBt, with properties including fire resistance tested to withstand 120 minutes (DIN EN 1363-1:2012, Technical Report TR 020), and must have water tightness certificate for "0" mm under 5 bar water pressure (EN 12390-8:2019). ETA approval from DIBt for Diamond Drilling is required, alongside LEED certification and compliance with LEED V4 standards (ISO 16000, EN 16516, CDPH 01350, ASTM D2369, EPA method 24). Rates shall encompass labor, tools and plants for power drilling in concrete, epoxy cartridges, plastic nozzles, and complete drilling holes with dust removal by air blowing. Additional charges apply for reinforcement bars. (Product :- Lockfix of Fosroc/ RE-500 of Hilti/ MasterFlow 935 AN of BASF/ Fischer/Wruth) a) Rebar 10 mm Dia x 14 mm holes x 100mm depth	0	50	50.00	Nos		
176	Supply and install reinforcement bars using Heavy Duty rebaring chemical Fosroc LOKFIX E77 for main bars and LOKFIX E45T for shear connectors, pure epoxy chemical anchor grout with ETA approval from DIBt, suitable for reinforcement bars ranging from 8 mm to 40 mm in diameter at specified embedment depths as per manufacturer's specifications. The epoxy chemical must have a working life period certified for 50 or 100 years as per ETA from DIBt, with properties including fire resistance tested to withstand 120 minutes (DIN EN 1363-1:2012, Technical Report TR 020), and must have water tightness certificate for "0" mm under 5 bar water pressure (EN 12390-8:2019). ETA approval from DIBt for Diamond Drilling is required, alongside LEED certification and compliance with LEED V4 standards (ISO 16000, EN 16516, CDPH 01350, ASTM D2369, EPA method 24). Rates shall encompass labor, tools and plants for power drilling in concrete, epoxy cartridges, plastic nozzles, and complete drilling holes with dust removal by air blowing. Additional charges apply for reinforcement bars. (Product :- Lockfix of Fosroc/ RE-500 of Hilti/ MasterFlow 935 AN of BASF/ Fischer/Wruth) - Rebar 10 mm Dia x 14 mm holes x 100mm depth	0	20	20.00	Nos		
177	Supply and install reinforcement bars using Heavy Duty rebaring chemical Fosroc LOKFIX E77 for main bars and LOKFIX E45T for shear connectors, pure epoxy chemical anchor grout with ETA approval from DIBt, suitable for reinforcement bars ranging from 8 mm to 40 mm in diameter at specified embedment depths as per manufacturer's specifications. The epoxy chemical must have a working life period certified for 50 or 100 years as per ETA from DIBt, with properties including fire resistance tested to withstand 120 minutes (DIN EN 1363-1:2012, Technical Report TR 020), and must have water tightness certificate for "0" mm under 5 bar water pressure (EN 12390-8:2019). ETA approval from DIBt for Diamond Drilling is required, alongside LEED certification and compliance with LEED V4 standards (ISO 16000, EN 16516, CDPH 01350, ASTM D2369, EPA method 24). Rates shall encompass labor, tools and plants for power drilling in concrete, epoxy cartridges, plastic nozzles, and complete drilling holes with dust removal by air blowing. Additional charges apply for reinforcement bars. (Product :- Lockfix of Fosroc/ RE-500 of Hilti/ MasterFlow 935 AN of BASF/ Fischer/Wruth) - Rebar 16 mm Dia x 20 mm holes x 160mm depth	0	10	10.00	Nos		
178	Providing and applying uni directional, high strength carbon fiber sheets Nitowrap CWS of 450 GSM/ dry fabric thickness. The FRP fabric used shall be of zero degree unidirectional fibers having fiber density of 1.8 g/cc and shall have tensile strength > 4900 MPa ; tensile modulus > 230 GPa and ultimate elongation of 2.1%. The substrate shall be primed with Nitowrap 30 epoxy primer & Nitowrap 410 impregnating resin saturant shall be used for saturating the fibers. Saturant used shall have tensile strength of >30 MPa; Elongation > 2% ; Flexural strength > 30 MPa ; Tensile Modulus > 2400 MPa & Flexural Modulus > 1700 MPa when tested as per ASTM D638 Type I and ASTM D 790 & Glass Transition Temperature > 50 deg Celcius as per ASTM E 1356. The adhesion of the entire system (FRP Sheet, Saturant and primer combined) with concrete shall be > 3.5 MPa with concrete failure as per ASTM D 4541. (Product :- Nitowrap CWS of 450 GSM of Fosroc, Sikawrap® 930 G of Sika / MasterBrace FIB 73/900 of BASF) Surface preparation: Grinding/ moulding concrete substrate cleaning it with wire brush removing oil, laitance if present, rounding sharp edges to min 25mm radius etc. complete. Profiling : Applying compatible primer of approved make and brand on prepared substrate, filling the holes and uneven surface with thixotropic putty etc. complete. Wrapping : Wrapping the fiber sheet with recommended overlapping to structural element at desired orientation using tamping roller to avoid any air voids etc. repeat the same procedure for multiple layer with the interval of 8 hrs. Sand Pasting : Applying second coat of saturated after 12 hrs. rectify air voids if any, paste the coarse sand on it to make surface rough to take any further finishes (Mode of measurement : Per sqm surface area of application per layer).	0	50	50.00	Sqm		
179	Supply and install fiber anchors to be embedded at a depth of 75 mm with 75 mm protrusion, spaced at 500 mm center to center. (Product make: Fosroc/ Sika/ BASF)	0	50	50.00	Nos		
180	Water-stopping crack injection resin foam shall be Nitofill WS60, a two-part foaming liquid polyurethane. When mixed in the supplied proportions and injected into concrete cracks, the resin reacts with moving water to create a foam barrier that stops water infiltration. The resin's properties include a pot life of 6-8 hours at 20°C, specific gravity of 1.11 ± 0.03, and foam density of 0.024g ± 0.003. Used alongside Nitofill UR63, a flexible two-part polyurethane injection resin, it ensures a permanent seal in cracked concrete. Nitofill UR63 is a solvent-free liquid polyurethane that, when mixed and injected into cracks, forms a slightly flexible and impermeable barrier in dry and damp conditions. This polyurethane system features a pot life of 60 to 80 minutes at 25°C, reaction time of 70 to 90 minutes at 25°C, viscosity of 40-60 cps at 25°C, and specific gravity of 1.1. When combined with Nitofill WS60, the foaming polyurethane resin, it guarantees a durable seal in cracked concrete. Nitofill WS60	0	10	10.00	Kg		

S.No	Description	Quantities		Total Quantities	Unit	Rate (In Rs.)e/x GST	Amount (In Rs.) e/x GST	
		PART-A	PART-B					
181	Water-stopping crack injection resin foam shall be Nitofill WS60, a two-part foaming liquid polyurethane. When mixed in the supplied proportions and injected into concrete cracks, the resin reacts with moving water to create a foam barrier that stops water infiltration. The resin's properties include a pot life of 6-8 hours at 20°C, specific gravity of 1.11 ± 0.03, and foam density of 0.024g ± 0.003. Used alongside Nitofill UR63, a flexible two-part polyurethane injection resin, it ensures a permanent seal in cracked concrete. Nitofill UR63 is a solvent-free liquid polyurethane that, when mixed and injected into cracks, forms a slightly flexible and impermeable barrier in dry and damp conditions. This polyurethane system features a pot life of 60 to 80 minutes at 25°C, reaction time of 70 to 90 minutes at 25°C, viscosity of 40-60 cps at 25°C, and specific gravity of 1.1. When combined with Nitofill WS60, the foaming polyurethane resin, it guarantees a durable seal in cracked concrete. Nitofill UR63	0	10	10.00	Kg			
182	Supply and apply Dekguard E2000, a high-performance elastomeric protective anticarbonation coating for concrete and masonry. The protective coating system includes a penetrating silane-siloxane primer (Dekguard Primer) and a single-component elastomeric anticarbonation aliphatic acrylic coating (Dekguard E2000). Ensure the total dry film thickness of the protective coating system is not less than 200 microns. The coating system shall provide CO2 diffusion resistance of at least 50 meters (equivalent air layer thickness), static crack accommodation of minimum 2mm, and adhesion greater than 1.0 N/mm² as per ASTM D 4541. The product used must meet specified performance standards for durability and protection against carbonation. Apply in accordance with manufacturer's guidelines to ensure effective long-term performance and adherence to project requirements	0	147	147.00	Sqm			
183	Providing, cutting and laying SWG10 welded wire mesh and mesh size 50x50 mm including anchoring it on the wall with 4.75mm bar by drilling and fixing with cement slurry as per drawing details, specification and instruction by the Engineer.	0	147	147.00	Sqm			
184	Provide and apply single-component, free-flowing, non-shrink cementitious microconcrete at a water-to-powder ratio of 0.15. The microconcrete should have a fresh wet density of 2200 kg/m³ at 27°C and an unrestrained expansion of 1 to 4% as per ASTM C827. It must achieve a flowable consistency and compressive strength of not less than 10 N/mm² after 24 hours, 35 N/mm² after 7 days, and 45 N/mm² after 28 days at 30°C. The cured microconcrete shall be free from metallic aggregates and chlorides, and it must be shrinkage-compensated in the plastic state. Payment will be based on the consumed dry material of the microconcrete mix (Product :- Renderoc RG 45 of Fosroc/ SikaRep® Microcrete -4 of Sika / MasterEmaco S-346 of BASF or equivalent of Pidilite)-Without addition of aggregate	0	3	3.00	TON			
185	Provide and apply single-component, free-flowing, non-shrink cementitious microconcrete at a water-to-powder ratio of 0.15. The microconcrete should have a fresh wet density of 2200 kg/m³ at 27°C and an unrestrained expansion of 1 to 4% as per ASTM C827. It must achieve a flowable consistency and compressive strength of not less than 10 N/mm² after 24 hours, 35 N/mm² after 7 days, and 45 N/mm² after 28 days at 30°C. The cured microconcrete shall be free from metallic aggregates and chlorides, and it must be shrinkage-compensated in the plastic state. Payment will be based on the consumed dry material of the microconcrete mix (Product :- Renderoc RG 45 of Fosroc/ SikaRep® Microcrete -4 of Sika / MasterEmaco S-346 of BASF or equivalent of Pidilite)-With addition of 6 mm down aggregate in 3:1 (3 Micro concrete: 1 aggregate 6 mm & down)	0	3	3.00	TON			
186	12mm ready mix cement plaster - Ready mix cement plaster/ render with high quality polymer additives, special binders, well graded sand and fillers can be applied onbrick & block masonry for both external and internal plastering works.(UltraTech Readiplast / Fosroc)	0	290	290.00	SQM			
187	15mm ready mix cement plaster - Ready mix cement plaster/ render with high quality polymer additives, special binders, well graded sand and fillers can be applied onbrick & block masonry for both external and internal plastering works.(UltraTech Readiplast / Fosroc)	0	104	104.00	SQM			
188	6mm ready mix cement plaster - Ready mix cement plaster/ render with high quality polymer additives, special binders, well graded sand and fillers can be applied onbrick & block masonry for both external and internal plastering works.(UltraTech Readiplast / Fosroc)	0	255	255.00	SQM			
189	Fixed - WINDOW, TYPE: GALVANIZED IRON STEEL PRE PAINTED; MATERIAL: GALVANIZED IRON STEEL PRE PAINTED;; WITH GLASS OF 5MM THICKNESS; MODEL: ECO 3000 SERIES; MAKE: NCL; DIMENSION AS PER SITE CONDITION; SPECIAL FEATURES: FIXED;Providing and fixing Eco 3000 Series Windows fabricated from roll formed sections made of Galvanized Steel Colour Coated/Powder Coated (Base Steel as per IS 513 "D" quality, Galvanized as per IS 277 with Zinc of 120 grams/Sq. Mtr.) with total coated thickness of 0.60 mm. Coated Sections should be with Primer Coat of Epoxy Primer of 5-7 microns thick, finish painted with Polyester Paint of 12-16 microns thick and back coated with Alkyd backer of 5-7 microns, or Powder Coated with pure Polyester Powder up to 50-60 microns thick. Section for frame should be 48mm x 50mm, Section for Mullion should be of 48mm x 50mm, Section for Glazed Shutter Frame should be of 47mm x 20mm, and Section for Fixed Glass Bead should be of 12mm x 12mm. Frame and Shutter Frame Sections should be cut to length and metre joined with Polypropylene Corner Brackets. Mullion Section should be joined with Frame/Mullion using Nylon Mullion Cap. Ethyl Propylene Diamine Monomer (EPDM) Gasket should be used all around glass in shutter. Each Glazed Shutter should be provided with S.S. Pivot Hinges-1set, Seccolor Handle & Seccolor Stay. Window Frame should be fixed to brick/concrete masonry by using Nylon self expanding caps and driving MS electroplated 80mm long screws into the caps through frames. (after fixing the windows, gap shall be filledup by sellicon sealant , gaps more than 5mm shall be filled with backer rod approved). Glass shutter & Fixed Glass portions should be provided with a glass of 5MM Plain Float Glass. Windows should be provided with Grill made of 10mm sq. MS Bars welded to at 150mm center-to-center, 6mm x 12mm MS flat. Total grill unit should be powder coated and fixed to window frame with screws. The rates shall include P/F of all hardware as per site requirement.	0	14	14.00	SQM			
				Total Cost e/x GST@18% of I				
II								
IT WORK								
S.No	Description	Qty.		Unit	Rate (In Rs.)	Amount (In Rs.)		
1	IT Points	70		PNT				
				Total Cost e/x GST@18% of II				
III								
FIRE WORK								
S.No	Description	Qty.		Unit	Rate (In Rs.)	Amount (In Rs.)		
1	Smoke detector	15		Ea				
2	Alarm/Hooter	1		Ea				
3	Fire alarm panel	1		Ea				
4	Cabel	150		Mtr				
				Total Cost e/x GST@18% of III				
IV								
AC WORK								
S.No	Description	Qty.		Unit	Rate (In Rs.)	Amount (In Rs.)		

S.No	Description	Quantities		Total Quantities	Unit	Rate (In Rs.)e/x GST	Amount (In Rs.) e/x GST
		PART-A	PART-B				
1	Supply & Installation of Split AC 1.5 Ton,5 Star Inverter AC with R-32/410 green Gas and Max Ambient Temp-50 deg c with 3 metre copper pipe,pvc drain pipe and power cable. Make : Bluestar/voltas/Dakin	15			NOS		
2	Supply and installation of Stabilizer 4KVA voltage range (170V - 270 V) suitable for Inverter Split AC, Split AC Make : V-Guard/Blue Gaurd	15			NOS		
3	Supply and Installation of Out Door Unit Stand	15			NOS		
4	Supply and installation of extra copper pipe required for 1.5 ton & 2.0 Ton split AC installation as per site requirement (Suction line -1/2" + Liquid line- 1/4") with suitable foam insulation.(Over and above 3.0 Meter supplied with AC unit)	45			MTR		
5	Supply and installation of extra PVC Hard drain pipe 25mm with Accessories required for installation.	45			MTR		
6	Supply and Installation of Electrical Cable (3C * 2.5 Sq.mm) (Over and above 3.0 Meter supplied with AC unit)	100			MTR		
Total Cost e/x GST@18% of IV							
V FURNITURE WORK							
S.No	Description	Qty.		Unit	Rate (In Rs.)	Amount (In Rs.)	
1	Curvilinear Worksurface Cockpit (Prelam)- 1500 X 1500 X 450 X 750	10		Nos.			
2	Worksurface (Prelam)- 1200 X 600 X 25	45		Nos.			
3	Keyboard Drawer with Mouse Tray (M.S)-510 X 450 X 55	55		Nos.			
4	CPU Trolley (Metallic)- 245 X 245 X 240	55		Nos.			
5	Pedestal 3D(2D+1 FD) on Castors (Prelam)-400 X 495 X 702	55		Nos.			
6	Board Side (BSL) 600 X 18 X 725	25		Nos.			
7	Panel 62mm Sonata TA System-Prelam/Softboard/Fabric/LWB double race way - 1194 mm Height	75		m ²			
8	Table Board Prelam 25 mm thk Board - 1500x750x750	3		Nos.			
9	Side Runner prelam-900x375x750	3		Nos.			
10	Vertical Storage Unit (Prelam)-894 X 450 X 1200	20		Nos.			
11	Low Back Staff Chairs-Low back chair for staff with triangle PP arms with gas lift & push back arrangement,n	45		Nos.			
12	High Back Chair	10		Nos.			
13	MS Legs-75x725	10		Ea			
Total Cost e/x GST@18% Of V							
Total cost e/x GST@18% of Package-II (I+II+III+IV+V)							

Package-III								
PACKAGE-III-Price Breakup								
PART-A-Construction of S.st. no.-09, IP Extension Patparganj								
PART-B :- Substation No. 12 Patparganj								
PART-C :- Civil Repairing works at Planning & Construction Station No. 2 FIE PPG								
S.No	Description	Quantities				Unit	Rate (In Rs.) e/x GST	Amount (In Rs.) e/x GST
		PART-A	PART-B	PART-C	Total Quantities			
CIVIL WORK								
1	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 disposal of excavated earth, lead upto 50 m and lift upto 1.5 m, disposed earth to be levelled and neatly dressed : All kinds of soil.	320.00	400.00	100.00	820.00	CUM		
2	Extra for every additional lift of 1.5 m or part thereof in excavation /banking excavated or stacked materials. All kinds of soil	280.00	275.00	0.00	555.00	CUM		
3	Close timbering in trenches including strutting, shoring and packing cavities (wherever required) complete. (Measurements to be taken of the face area timbered). Depth not exceeding 1.5 m	77.40	55.20	0.00	132.60	SQM		
4	Close timbering in trenches including strutting, shoring and packing cavities (wherever required) complete. (Measurements to be taken of the face area timbered).Depth exceeding 1.5 m but not exceeding 3 m	23.00	27.00	0.00	50.00	SQM		
5	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth,consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	500.00	300.00	0.00	800.00	CUM		
6	Supplying chemical emulsion in sealed containers including delivery as specified. Chlorpyrifos/ Lindane emulsifiable concentrate of 20%	88.00	90.00	0.00	178.00	Ltr		
7	Diluting and injecting chemical emulsion for anti-termite treatment (excluding the cost of chemical emulsion) in bases of footings, vertical faces of brick wall/ RCC column, under floors, along external wall, apron , etc complete as per relevant IS codes (plinth area shall be measured for payment): With Chlorpyrifos/ Lindane E.C. 20% with 1% concentration	292.00	200.00	0.00	492.00	SQM		
8	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	54.00	50.00	100.00	204.00	CUM		
9	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth.	50.00	54.00	54.00	158.00	SQM		
10	Providing and laying in position ready mixed or site batched design mix cement concrete for plain cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana/Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering and finishing as per direction of the engineer-in-charge; for the following grades of concrete. (make- ACC, Lafarge, Afcon, Ultra Tech) Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 110% of the minimum specified cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement. All works upto plinth level : Concrete of M10 grade with minimum cement content of 220 kg /cum	12.00	10.00	0.00	22.00	CUM		
11	Providing and laying in position ready mixed M-25 grade concrete for reinforced cement concrete work, using cement content as per approved design mix, manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work, including pumping of R.M.C. from transit mixer to site of laying , excluding the cost of centering, shuttering finishing and reinforcement, including cost of admixtures in recommended proportions as per IS : 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability & Corrosion Resistance and water proofing as per direction of the Engineer - in - charge. (Note :- Cement content considered in this item is @ 330 kg/cum). All works upto plinth level (5.37.1) Make -ACC, Altratech, lafarge	70.00	90.00	0.00	160.00	CUM		
12	Providing and laying in position ready mixed M-25 grade concrete for reinforced cement concrete work, using cement content as per approved design mix, manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work, including pumping of R.M.C. from transit mixer to site of laying , excluding the cost of centering, shuttering finishing and reinforcement, including cost of admixtures in recommended proportions as per IS : 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability Corrosion Resistance and water proofing as per direction of the Engineer - in - charge. (Note :- Cement content considered in this item is @ 330 kg/cum). All works above plinth level upto floor V level (5.37.2-AR40)) Make -ACC, Altratech, lafarge	54.00	38.00	0.00	92.00	CUM		
13	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:1½:3 (1 Cement: 1½ coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	2.00	2.00	0.00	4.00	CUM		
14	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:4:8 (1 Cement : 4 coarse sand (zone-III) derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources)	24.00	25.00	0.00	49.00	CUM		
15	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor etc., up to floor five level, excluding the cost of centering, shuttering and finishing: 1:1½:3 (1 cement : 1½ coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	2.00	2.00	0.00	4.00	CUM		
16	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centring, shuttering, finishing and reinforcement - 1:1.5:3 (1 Cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	26.00	20.00	0.00	46.00	CUM		
17	Reinforced cement concrete work in beams, suspended floors, roofs having slope upto 15°, landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases upto floor five level excluding the cost of centring, shuttering, finishing and reinforcement with 1:1.5:3 (1 Cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	12.00	15.00	35.00	62.00	CUM		

S.No	Description	Quantities				Unit	Rate (In Rs.) e/x GST	Amount (In Rs.) e/x GST
		PART-A	PART-B	PART-C	Total Quantities			
18	Centring and shuttering including strutting, propping etc. and removal of form work for : Foundations, footings, bases of columns.	42.00	42.00	650.00	734.00	SQM		
19	Centring and shuttering including strutting, propping etc. and removal of form for: Suspended floors, roofs, landings, balconies and access platform	362.00	350.00	450.00	1162.00	SQM		
20	Centring and shuttering including strutting, propping etc. and removal of form for: Lintels, beams, plinth beams, girders, bressumers and cantilevers	184.00	185.00	0.00	369.00	SQM		
21	Centring and shuttering including strutting, propping etc. and removal of form for: Columns, Pillars, Piers, Abutments, Posts and Struts	250.00	295.00	0.00	545.00	SQM		
22	Centring and shuttering including strutting, propping etc. and removal of form for: Stairs, (excluding landings) except spiral-staircases	24.00	46.00	0.00	70.00	SQM		
23	Extra for additional height in centering, shuttering where ever required with adequate bracing, propping etc., including cost of de-shuttering and decentering at all levels, over a height of 3.5 m, for every additional height of 1 metre or part thereof (Plan area to be measured). Suspended floors, roofs, landing, beams and balconies (Plan area to be measured)	292.00		0.00	292.00	SQM		
24	Reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete. cold twisted bars (Make- TATA/ SAIL)	23500.00	20100.00	16500.00	60100.00	KG		
25	Add for plaster drip course/groove in plastered surface or moulding to R.C.C. projections	20.00	22.00	750.00	792.00	M		
26	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement :2 coarse sand : 4 graded stone aggregate of 10 mm and down gauge) including finishing with cement mortar 1:3 (1 cement: 3 fine sand) as per standard design : In 75 x75 mm deep chase	28.00	90.00	98.00	216.00	M		
27	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : Cement mortar 1:4 (1 cement : 4 coarse sand)	86.00	80.00	10.00	176.00	CUM		
28	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 : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.Granite stone slab colour black, Cherry/Ruby red : Area of slab upto 0.50 sqm	65.00	90.00	0.00	155.00	SQM		
29	12 mm cement plaster of mix: 1:4 (1 cement : 4 coarse sand)	50.00	400.00	300.00	750.00	SQM		
30	15 mm cement plaster on rough side of single or half brick wall of mix 1:4 (1 cement : 4 coarse sand)	150.00	414.00	320.00	884.00	sqm		
31	P/F MS chequered plate i/c cutting, straightening, rounding of edges, making lifting arrangement & fixing by welding to M.S angle frame etc. (AR142)	10.00	10.00	0.00	20.00	KG		
32	Providing and laying Vitrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @3.3 kg/sqm including grouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only . Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently and easily. Double charge vitrified tile polished finish of size 800X1200	314.00	0.00		314.00			
33	Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade. New work (two or more coats) over and including water thinnable priming coat with cement primer	314.00	0.00	180.00	494.00	SQM		
34	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)	14.00	12.00	200.00	226.00	SQM		
35	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade :Two or more coats on new work		694.00	920.00	1614.00	SQM		
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.).	124.00	100.00	0.00	224.00	KG		
37	52 mm thick cement concrete flooring with concrete hardener topping, under layer 40 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and top layer 12 mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate 6 mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufacturer's specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete.	26.00	26.00	80.00	132.00	SQM		
38	Cement plaster skirting (upto 30 cm height) with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement. 18 mm thick	4.00	4.00	11.00	19.00	SQM		
39	Providing and fixing glass strips in joints of terrazo/cement concrete floors. - 40 mm wide and 4 mm thick.	46.00	46.00		92.00	M		
40	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.	90.00	12.00	200.00	302.00	M		
41	Removing dry or oil bound distemper water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	8.00	0.00	1120.00	1128.00	sqm		
42	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of engineer in charge. Nominal concrete: 1:3:6 or richer mix (i/c equivalent design mix)	80.00	0.00	12.00	92.00	cum		
43	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	16.00	76.00	99.00	191.00	cum		
44	Demolishing brick work manually /by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-In-charge.: In cement mortar	8.00	0.00	11.00	19.00	cum		
45	Dismantling steel work in built up sections in angles, tees, flats and channels including all gusset plates, bolts, nuts, cutting rivets, welding etc. including dismembering and stacking within 50 m lead.	2.00	0.00	300.00	302.00	kg		

S.No	Description	Quantities				Unit	Rate (In Rs.) e/x GST	Amount (In Rs.) e/x GST
		PART-A	PART-B	PART-C	Total Quantities			
46	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead:For thickness of tiles 10 mm to 25 mm	6.00	0.00	145.00	151.00	sqm		
47	Demolishing mud phaska in terracing and disposal of material within 50 metres lead (15.27-AR282)	6.00	0.00	42.00	48.00	sqm		
48	Dismantling roofing including ridges, hips valleys and gutters etc., and stacking the material within 50 metres lead of: G.S. Sheet	5.00	0.00	1345.00	1350.00	sqm		
49	Dismantling old plaster or skirting, raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	5.00	0.00	98.00	103.00	sqm		
50	Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 metre openable length (total length 90 m), having 50 nos rounds per 6 metre length, upto 3 m height of wall with existing angle iron "Y" shaped placed 2.4m or 3.00 m apart and with 9 horizontal R.B.T. reinforced barbed wire, stud tied with G.I. staples and G.I. clips to retain horizontal, including necessary bolts or G.I. barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape(R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/sq.mm with tape (0.52 mm thick) and weight 43.478 gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately)	250.00	0.00	285.00	535.00	M		
51	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with line sand etc. all complete as per the direction of Engineer-in-charge.	200.00	0.00	100.00	300.00	sqm		
52	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required: White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	5.00	2.00	1.00	8.00	Each		
53	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including W.C. pan with ISI marked white solid plastic seat and lid	5.00	6.00	2.00	13.00	Each		
54	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet : 150 mm diameter	5.00	5.00	1.00	11.00	Each		
55	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require: White Vitreous China Flat back wash basin size 550x 400 mm with single 15 mm C.P. brass pillar tap	1000.00	5.00	4.00	1009.00	Each		
56	Providing and Laying 110 mm dia PVC pipe (Heavy duty-working pressure 6Kg/cm2) of Prakash or equivalent make as per required slope for sewer line including jointing etc. complete as per direction of Engineer-in-charge (Wt. of pipe-22 Kg approx).	300.00	200.00	0.00	500.00	M		
57	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.Internal work - Exposed on wall : 20 mm nominal outer dia Pipes., (18.7.2-AR358)	100.00	0.00	25.00	125.00	M		
58	Providing and fixing brass bib cock of approved quality : 20 mm nominal bore	3.00	5.00	4.00	12.00	Each		
59	Providing and fixing brass stop cock of approved quality : 20 mm nominal bore	3.00	5.00	4.00	12.00	Each		
60	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet : 150 mm diameter	10.00	5.00	1.00	16.00	Each		
61	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	10.00	1000.00	5000.00	6010.00	ltr		
62	Providing and Fixing bevelled edge mirror of superior quality glass (Modi /Sant Gobain) complete with 6 mm thick hard board fixed to wooden cleats with cp brass screws and washers etc complete. (17.31-AR508)	3.00	3.00	1.85	7.85	Sqm		
63	Providing and fixing health faucet hardware or parryware make as per direction of EIC (Based on MR)	3.00	3.00	2.00	8.00	Each		
64	Providing and fixing C.P. brass angle valve for basin mixer and gysler points of approved quality conforming to IS:8931 a) 15 mm nominal bore : 15 mm nominal bore (18.53.1-AR423)	3.00	3.00	12.00	18.00	Each		
65	Providing and fixing uplasticised PVC connection pipe with brass unions: 45 cm length, 15 mm NB, (18.21.2.1-AR390)	3.00	3.00	8.00	14.00	Each		
66	Providing and fixing C.P. brass long body bib cock hardware/parryware conforming to IS standards and weighing not less than 690 gms: 15 mm nominal bore. (18.51.1-AR421)	3.00	3.00	6.00	12.00	Each		
67	Point wiring in PVC conduit, with modular type switch : Wiring for light point / fan point / exhaust fan point / call bell point with 1.5 sq.mm FR PVC insulated copper conductor single core cable in surface / recessed PVC conduit, with modular switch, modular plate, suitable G.I. box and earthing the point with 1.5 sq.mm. FR PVC insulated copper conductor single core cable etc as required. Group B	3.00	3.00	40.00	46.00	PNT		
68	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.15/16 A switch (DSR-1.24.3)	25.00	25.00	25.00	75.00	Each		
69	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required6 pin 15/16 A socket outlet Each (DSR- 1.24.5)	25.00	25.00	25.00	75.00	Each		
70	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required. 5/6 amps switch (AR582)	5.00	5.00	45.00	55.00	Each		
71	"P/F URINAL PARTITIONS 3/4"" THK GRANITE 600 MMX1350 MM OF APPD DESIG AND SHADE INCLUDING FIXING IN THE WALLS AS REQUIRED BY CHASING & MAKING GOOD THE WALLS WHEREVER REQUIRED ALSO PROVIDING EDGE MOULDING TO THE GRANITE PARTITION COMPLETE JOB AS PER INSTRUCTION OF EIC.	5.00	5.00	2.00	12.00	SQM		
72	Providing and fixing square-mouth S.W. gully trap class SP-1complete with C.I. grating brick masonry chamber with 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 : 100x100mm size P type with common burnt clay F.P.S (non modular) bricks of class designation 75 (19.4.1.1-AR446)	5.00	5.00	4.00	14.00	Each		
73	12 mm cement plaster of mix: 1:4 (1 cement : 4 coarse sand)	480.00	400.00	300.00	1180.00	SQM		
74	15 mm cement plaster on rough side of single or half brick wall of mix 1:4 (1 cement : 4 coarse sand)	414.00	414.00	320.00	1148.00	SQM		
75	6 mm cement plaster of mix : 1:3 (1 cement: 3 fine sand)	362.00	382.00		744.00	SQM		
76	Neat cement punning	292.00	292.00	320.00	904.00	SQM		

S.No	Description	Quantities				Unit	Rate (In Rs.) e/x GST	Amount (In Rs.) e/x GST
		PART-A	PART-B	PART-C	Total Quantities			
77	Extra for providing and mixing water proofing material in cement plaster work in proportion recommended by the manufacturers.(Per Bag of 50 KG cement used in the mix)	40.00	40.00	45.00	125.00	sqm		
78	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	676.00	694.00	920.00	2290.00	SQM		
79	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface : Water thinnable cement primer	676.00	694.00	920.00	2290.00	SQM		
80	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)	12.00	12.00	200.00	224.00	SQM		
81	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade :Two or more coats on new work	676.00	694.00	920.00	2290.00	SQM		
82	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade. Two or more coats on new work.	10.00	10.00	205.00	225.00	SQM		
83	Washed stone grit plaster on exterior walls of height upto 10 metre above ground level, in two layers, under layer 12mm cement plaster 1:4 (1 cement: 4 coarse sand), furrowing the under layer with scratching tool, applying cement slurry on the under layer @ 2 Kg of cement per square metre, top layer 15mm cement plaster 1:1/2:2 (1 cement: 1/2 coarse sand :2 stone chipping 10mm nominal size), in panels with groove all around as per approved pattern, including scrubbing and washing the top layer with brushes and water to expose the stone chippings, complete as per specification and direction of Engineer-in- charge (Payment for providing grooves shall be made separately).	250.00	200.00	785.00	1235.00	SQM		
84	Forming groove of uniform size from 12x12mm and upto 25x15mm in the top layer of washed stone grit plastered surface as per approved pattern, including providing and fixing aluminum channels of appropriate size and thickness (not less than 2 mm), nailed to the under layer with rust proof screws and nails and finishing the groove complete as per specifications and direction of the Engineer-in-Charge.	674.00	674.00	2180.00	3528.00	M		
85	Extra for using Silver cement in place of ordinary cement in the top layer of the item of washed stone grit plaster.	250.00	200.00	785.00	1235.00	SQM		
86	Extra for providing & mixing the dark shade pigment in top layer of washed stone grit plaster. (AR-55)	250.00	200.00		450.00	SQM		
87	Extra for using marble chips of size 7 to 10 mm nominal size in place of stone chipping 10 mm nominal size in Washed stone grit plaster on exterior walls (AR158)	250.00	200.00		450.00	SQM		
88	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.	12.00	12.00	200.00	224.00	SQM		
89	Supplying and stacking at site. Good earth	200.00	302.00		502.00	CUM		
90	Providing and erecting 2.00 metre high temporary barricading at site; each panel of size 2.50mx2.00m made of 40x40x6mm angle iron or50x50x3mm hollow MS tube posts/horizontal members/bracings covered with 1.63mm thick MS sheet. The sheet shall be fixed with 30x5mm MS flat by suitable welding/ riveting. The panels shall be made so that gap of 50cm above the ground is available making overall height as 2.5m. MS channel ISLC 75 @ 5.70 kg/m, 50cm long shall be provided at the bottom having oval shaped holes of size 50x25mm at both ends with 50cm long MS angle 40x40x6mm bracing. Suitable arrangement shall be made to fix the barricading to avoid from overturning by providing 250mm long expansion fasteners at both ends. The work shall be executed as per drawing/direction of Engineer-in-Charge which includes writing and painting, arrangement for traffic diversion such as traffic signals during construction at site for day and night, glow lamps, reflective signs, marking, flags, caution tape as directed by the Engineer-in-Charge. The barricading provided shall be retained in position at site continuously i/c shifting of barricading from one location to another location as many times as required during the execution of the entire work till its completion. Rate include its maintenance for damages, painting, all incidentals, labour materials, equipments and works required to execute the job. The barricading shall not be removed without prior approval of Engineer in-Charge.(Note :- One time payment shall be made for providing barricading from start of work till completion of work i/c shifting. The barricading provided shall remain to be the property of the contractor on completion of the work).	40.00	20.00	0.00	60.00	sqm		
91	Taking out existing CC interlocking paver blocks from footpath/ central verge, including removal of rubbish etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-Charge.	110.00	20.00	0.00	130.00	SQM		
92	Providing and laying factory made chamfered edge Cement Concrete paver blocks in footpath, parks, lawns, drive ways or light traffic parking etc, of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of sand, compacting and proper embedding/laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand. complete all as per direction of Engineer-in-Charge. 60mm thick cement concrete paver block of M-35 grade with approved colour, design & pattern.	15.00	15.00	0.00	30.00	SQM		

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93	Polyurethane Waterproofing by Dr.Fixit Flexi PU 270(I) : Removing & chipping off of existing loose plaster. Clean the surface from contaminants with brush. Remove any sharp protrusion on the blinding layer by chipping and local repairs. Surface Preparation: All surfaces which are to receive the coating must be free from oil, laitance, grease, wax, dirt or any other form of foreign matter which might affect adhesion. Cut back any protrusions. Typically concrete surfaces can be cleaned using high pressure water jet or by proper wire brushing/ grinder.All cracks, construction joints,honey combed/damaged surface to be repair with PMM and cracks to be chase out by cutting 25mm x 25mm "V" shape groove all along the crack, cleaning cracks and sealing it using Mesto Grout HS , curing etc., all complete as per the manufactureres specification and direction of engineer-in-charge. L Shape, Angular Fillet: Providing 50 mm X 50 mm angle fillets on the vertical up- stands, parapet wall junction corners, service units and properly dressed by preparing polymer modified mortar with Pidicrete URP or equivalent in the ratio of 1:3 by adding polymer 10% by weight of the cement, add little water, until the required consistency is achieved. Injection Grouting: Providing and applying injection grouting treatment by chemical injection grout process at construction joints, wall joints, honey comb areas etc. in concrete surface or the area using nozzles of min 25-50mm deep in slabs along with construction joints consisting of injection cement slurries of different viscosities under pressure by pump using injection grout waterproofing chemical (Pidicrete AM) mixed with neat cement slurry and sealing off nozzles after the injection operation. Screeding: Providing and laying of average 75mm thick (or suitable thickness for necessary slope) concrete screed of minimum M 20 grade concrete. PU Waterproofing Coating: Supplying and applying, Dr.Fixit Flexi PU 270(I) highly flexible is a liquid-applied, highly permanent elastic, cold applied and cold curing single component polyurethane cold applied coating system water proofing liquid membrane after applying Dr.Fixit Flexi PU 270(I). Over the primer coat . Polyurethane Dr.Fixit Flexi PU 270(I), shall be laid using Brush/roller in 3 layers to attain a seamless state of membrane. After applying the first coat of Dr.Fixit Flexi PU 270(I) leave dry for 8-10 hours, then apply the second coat of Dr.Fixit Flexi PU270(I) leave dry for 8-10 hours. Then the final coat of Dr.Fixit Flexi PU 270(I) leave dry for 8-10 hours. The layers of the liquid membrane to be terminated properly. properties polyurethane membrane with elongation of 400% as per ASTM D 412,tensile strength of 4 Nsqmm as per ASTM D412,shore hardness(shore A scale) 65 as per ASTM D 2240,adhesion to concrete > 2.0 N/mm2 as per ASTM D 903 applied in 3 coats at a total	270.00	255.00	270.00	795.00	SQM		
94	Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C., kitchen and the like as required as per direction of the Engineer-in-charge, consisting of : (i) 1st course of applying cement slurry @ 4.4 kg/sqm mixed with water proofing compound conforming to IS 2645 in recommended proportions including rounding off junction of vertical and horizontal surface. (ii) 2nd course of 20 mm cement plaster 1:3 (1 cement : 3 fine sand) mixed with water proofing compound in recommended proportion including rounding off junction of vertical and horizontal surface. (iii) 3rd course of applying blown or residual bitumen applied hot at 1.7 kg. per sqm of area. (iv) 4th 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).	13.50	13.50	0.00	27.00	SQM		
95	Supply, precast RCC trench cover of various size varying 1500 mm in length, 450 mm in width & 50 mm in thickness, with 3 mm thick 50mm wide, ms strip all around welded to the steel reinforcement bar of 6mm dia, 100 mm centre to centre & two no. hooks of 12 mm dia bar for lifting gaving finishing top surface & grade of cement concrete M-20. (AR478)	30.00	30.00	0.00	60.00	SQM		
96	Supply & Installation of 46mm thick Metal fire check door of 120 minutes' fire rating conforming to BS: 476 Part 22 and IS: 3614 Part II fabricated with 2 nos. 1.2mm thick galvanized sheet with infill of fire rated Acrylic Sealant and non-combustible core bonded to both faces of sheet with lock seam joints at stile edges and internal reinforcement at top, bottom and stile edges for Fire Rating. The door frames are manufactured from 1.6mm thick galvanized steel sheet pressed form to double rebate profile of size 143mm x 57mm duly filled with vermiculite based concrete mix. The door frames and door shutters are finished with powder coated Smoke grey finish.(as per approved shade)	10.00	10.00	0.00	20.00	SQM		
97	Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid decorative type 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/mm2, modulus of elasticity 850 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. WPC to be laminated with PVC foil of minimum 14 microns thick of approved design pasted with hot melt adhesive on both faces of shutter and fixing with stainless steel butt hinges of required size with necessary full body threaded star headed counter sunk S.S screws, all as per direction of Engineer-In- Charge. (Note: stainless steel butt hinges and necessary S.S screws shall be paid separately) 30 mm thick	13.91	13.91	0.00	27.82	SQM		
98	Providing and fixing pressed steel door frames conforming to IS: 4351, manufactured from commercial mild steel sheet of 1.60 mm thickness, including hinges, jamb, lock jamb, bead and if required angle threshold of mild steel angle of section 50x25 mm, or base ties of 1.60 mm, pressed mild steel welded or rigidly fixed together by mechanical means, including M.S. pressed butt hinges 2.5 mm thick with mortar guards, lock strike-plate and shock absorbers as specified and applying a coat of approved steel primer after pre-treatment of the surface as directed by Engineer-in-charge: Fixing with adjustable lugs with split end tail to each jamb.	85.05	85.05	0.00	170.10	M		
99	Providing and fixing M.S. Tubular frames for doors, windows, ventilators and cupboard with rectangular/ L-Type sections, made of 1.60 mm thick M.S. Sheet, joints mitred, welded and grinded finish, with profiles of required size, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer. Fixing with 15x3 mm lugs 10 cm. long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size).	20.00	20.00	0.00	40.00	Kg		
100	Fastener:- Supply of Fasteners 10 X 80 mm (08 Nos for Each Door) Hilti make	40.00	40.00	0.00	80.00	Each		
101	Hinges:- Supply of SS Ball Bearing Hinges of Size 102 X 76 X 3mm Complete With Ss Screws of DORMA (Model No : 3090F) Make	20.00	20.00	0.00	40.00	Each		
102	Vision Panel:- Supply of 6 MM Thick Clear Glass - Schott- Pyran Make- (200 X 300mm)	6.00	6.00	0.00	12.00	Each		
103	Door Closer:-Supply of DORMA (Model No. TS - 78) Make Door Closer	6.00	6.00	0.00	12.00	Each		

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104	SS D Handle :- Supply of 450 mm Long / 25 mm Dia / SS 304, Finish : Satin of DORMA (Model No. TGDIIH) Make	4.00	4.00	0.00	8.00	Pair		
105	Panic Bar S/L :-Supply of DORMA (Model No. PHCR 1000) Make Single Leaf Panic Bar Single Point, Silver Finish	6.00	6.00	0.00	12.00	Each		
106	Panic Trim:- Supply of DORMA (Model No. PHCR 2905) Make Panic Trim with Latch Handle	6.00	6.00	0.00	12.00	Each		
107	WINDOW, TYPE:GALVANIZED IRON STEEL PRE PAINTED; MATERIAL:GALVANIZED IRON STEEL PRE PAINTED;; WITH GLASS OF 5MM THICKNESS; MODEL: ECO 3000SERIES; MAKE: NCL; DIMENSION AS PER SITE CONDITION; SPECIAL FEATURES: OPENABLE;Providing and fixing Eco 3000 Series Windows fabricated from roll formed sections made of Galvanized Steel Colour Coated/Powder Coated (Base Steel as per IS 513 "D" quality, Galvanized as per IS 277 with Zinc of 120 grams/Sq. Mtr.) with total coated thickness of 0.60 mm. Coated Sections should be with Primer Coat of Epoxy Primer of 5-7 microns thick, finish painted with Polyester Paint of 12-16 microns thick and back coated with Alkyd backer of 5-7 microns, or Powder Coated with pure Polyester Powder up to 50-60 microns thick.Section for frame should be 48mm x 50mm, Section for Mullion should be of 48mm x 50mm, Section for Glazed Shutter Frame should be of 47mm x 20mm, and Section for Fixed Glass Bead should be of 12mm x 12mm.Frame and Shutter Frame Sections should be cut to length and metre joined with Polypropylene Corner Brackets. Mullion Section should be joined with Frame/Mullion using Nylon Mullion Cap. Ethyl Propylene Diamine Monomer (EPDM) Gasket should be used all around glass in shutter.Each Glazed Shutter should be provided with S.S. Pivot Hinges-1set, Seccolor Handle & Seccolor Stay.Window Frame should be fixed to brick/concrete masonry by using Nylon self expanding caps and driving MS electroplated 80mm long screws into the caps through frames. (after fixing the windows, gap shall be filledup by sellicon sealant).Glass shutter & Fixed Glass portions should be provided with a glass of 5MM Plain Float Glass.Windows should be provided with Grill made of 10mm sq. MS Bars welded to at 150mm center-to-center, 6mm x 12mm MS flat. Total grill unit should be powder coated and fixed to window frame with screws.	10.00	10.00	25.00	45.00	SQM		
108	WINDOW, TYPE:GALVANIZED IRON STEEL PRE PAINTED; MATERIAL:GALVANIZED IRON STEEL PRE PAINTED;; WITH GLASS OF 5MM THICKNESS; MODEL: ECO 3000SERIES; MAKE: NCL; DIMENSION AS PER SITE CONDITION; SPECIAL FEATURES: FIXED;Providing and fixing Eco 3000 Series Windows fabricated from roll formed sections made of Galvanized Steel Colour Coated/Powder Coated (Base Steel as per IS 513 "D" quality, Galvanized as per IS 277 with Zinc of 120 grams/Sq. Mtr.) with total coated thickness of 0.60 mm. Coated Sections should be with Primer Coat of Epoxy Primer of 5-7 microns thick, finish painted with Polyester Paint of 12-16 microns thick and back coated with Alkyd backer of 5-7 microns, or Powder Coated with pure Polyester Powder up to 50-60 microns thick.Section for frame should be 48mm x 50mm, Section for Mullion should be of 48mm x 50mm, Section for Glazed Shutter Frame should be of 47mm x 20mm, and Section for Fixed Glass Bead should be of 12mm x 12mm.Frame and Shutter Frame Sections should be cut to length and metre joined with Polypropylene Corner Brackets. Mullion Section should be joined with Frame/Mullion using Nylon Mullion Cap. Ethyl Propylene Diamine Monomer (EPDM) Gasket should be used all around glass in shutter.Each Glazed Shutter should be provided with S.S. Pivot Hinges-1set, Seccolor Handle & Seccolor Stay.Window Frame should be fixed to brick/concrete masonry by using Nylon self expanding caps and driving MS electroplated 80mm long screws into the caps through frames. (after fixing the windows, gap shall be filledup by sellicon sealant).Glass shutter & Fixed Glass portions should be provided with a glass of 5MM Plain Float Glass.Windows should be provided with Grill made of 10mm sq. MS Bars welded to at 150mm center-to-center, 6mm x 12mm MS flat. Total grill unit should be powder coated and fixed to window frame with screws.	6.00	6.00	25.00	37.00	SQM		
109	Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound , jointing tapes , finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with :12.5 mm thick tapered edge gypsum plain boardconforming to IS: 2095- (Part I) :2011 (Board with BIScertification marks)	60.00	41.50	0.00	101.50	SQM		
110	FALSE CEILING IN ARMSTRONG FINE FISSURED BUTT EDGE TILES 595X595MM : PROVIDING & FIXING OF ARMSTRONG FINE FISSURED BUTT EDGE TILE CEILING "COMPLETE IN ALL RESPECTS USING ARMSTRONG CHANNELS,HANGERS ETC. ITEM ""COMPLETE WITH ALL EDGE CUT TILES AND REQUIRED CUTTING FOR LIGHTS, " "SPEAKERS, DETECTORS, DIFFURES, ETC.TILE CODE-ARMSTRONG FINE FISSURED NF BUTT EDGE (AR230) Make - GYPROC.	120.44	130.00	0.00	250.44	SQM		
111	S/F PVC conduit : Supplying and fixing of following sizes of PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required. 25mm (AR572)	150.00	150.00	0.00	300.00	M		
112	Circuit / sub-main wiring in PVC conduit : Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of PVC insulated copper conductor, single core cable in surface/ recessed PVC conduit as required-2 X 4 sq. mm + 1 X 4 sq. mm earth wire.	200.00	100.00	75.00	375.00	M		
113	Circuit/sub-main wiring in PVC conduit : Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of PVC insulated copper conductor, single core cable in surface/ recessed PVC conduit as required-2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	200.00	150.00	150.00	500.00	M		

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114	Circuit/sub-main wiring in PVC conduit : Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of PVC insulated copper conductor, single core cable in surface/ recessed PVC conduit as required-2 X 6 sq. mm + 1 X 6 sq. mm earth wire	100.00	100.00	0.00	200.00	M		
115	Point wiring in PVC conduit, with modular type switch : Wiring for light point / fan point / exhaust fan point / call bell point with 1.5 sq.mm FR PVC insulated copper conductor single core cable in surface / recessed PVC conduit, with modular switch, modular plate, suitable G.I. box and earthing the point with 1.5 sq.mm. FR PVC insulated copper conductor single core cable etc as required. Group C (AR559)	56.00	56.00	40.00	152.00	Each		
116	P/F/T/C 6/16A 5 pin modular socket controlled by 16 A switch.(complete set modular). (AR693)	24.00	24.00	0.00	48.00	Each		
117	Providing, Fixing, Testing & Commissioning Of 3nos 6A 5pin socket & 1no 6A switch in 5 module plate. (AR760)	18.00	18.00	0.00	36.00	Each		
118	S / F light plug point modular type accessories : Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection. painting etc. as required. (For light plugs to be used in non residential buildings). (AR593)	12.00	12.00	0.00	24.00	Each		
119	S / F power plug point modular type accessories : Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 15 / 16 & 5 / 6 amps modular socket outlet and 15 / 1 6 amps modular switch, connection, painting etc. as required. (AR594)	14.00	14.00	0.00	28.00	Each		
120	Providing and fixing circular/hexagonal m.s. sheet ceiling fan box "with clamp of internal dia 140 mm, 73 mm height, 3 mm thick rim, " top and bottom lid of 1.5 mm m.s. sheet. lids shall be screwed into "m.s. box by means of 3 mm round headed screws, clamps shall be made "of 12 mm dia ms bar bend to shape as per std. drawing with overall length as 80 cm.	10.00	10.00	0.00	20.00	Each		
121	Supplying and fixing following rating, four pole, 415 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required. 63 Amps. (AR617)	2.00	2.00	0.00	4.00	Each		
122	S / F 'C' series. SP MCB : Supplying and fixing 5 amps to 32 amps rating, 240 volts. 'C' series, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. : Single pole (AR787)"	16.00	16.00	0.00	32.00	Each		
123	S/F SP MCB DB consumer unit : Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board consumer unit, 240 volts. on surface/ recess, complete with tinned copper busbar, neutral busbar, earth bar, din bar, hinged front acrylic cover for the MCB knobs, detachable gland plate, interconnections, phosphatized and powder painted including earthing etc. as required. (But without MCB / RCCB / Isolator) : 2 + 8 way (AR785)	2.00	2.00	0.00	4.00	Each		
124	Providing and fixing of LED Tubelight of 40Watt as per direction of EIC	18.00	18.00	0.00	36.00	Each		
125	Providing and fixing Industrial type Axial Exhaust fan of propeller type / axial type shall be provided for rooms with suitable drive motor, DOL starter, rain protection cowl with screen, grouting bolts etc. Fan for battery room shall be bifurcated type spark proof construction as per direction of Engineer incharge sweep of 600mm .(Make-Crompton).	2.00	2.00	0.00	4.00	Each		
126	Providing and fixing ceiling Fan 1400 mm of approved make.	6.00	6.00	0.00	12.00	Each		
127	Demolition and disposal from site as per MCD/DPC norms of existing building (boundary wall if applicable)RCC work ,Brick work ,Steel work ,Door & windows ,Flooring ,False ceiling ,Grade slab , plinth protection electrical fitting ,Plumbing, foundation , boundary wall (if applicable) or any other items not mentioned above and taking out all material and giiving recovery rate on sq feet basis of covered area.	300.00	300.00	0.00	600.00	Sqm		
128	LUM.LED.CEILING;36W;140-270V;600X600MM P/F/T/C LUMINAIRE,LED,TYPE:CEILING;POWER:36 W;VOLTAGE:140-270 V;LAMP SIZE:600X600 MM;MOUNTING:RECESSED;INGRESS PROTECTION:IP 20; MAKE:CROMPTON;MODEL:LCTLRN 36 FO CDL;ADDITIONAL INFORMATION:LED 36 W EFFICIENCY 85 PERCENT SURGE PROTECTION UP TO 2.5 KV: SYSKA / HAVELLS OR EQUIVALENT	15.00	5.00	0.00	20.00	NOS		
129	P/F Focus light 7 wt of syska or equivalent make	15.00	15.00	0.00	30.00	NOS		
130	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	1200	2000	3790	6990.00	KG		
131	Providing and fixing JSW/ Bluescope pre coated galvanized rib & flute design profile sheets (size, shape and pitch of corrugation as approved by Engineer in-charge) 0.50 mm (+0.05%) total coated thickness with Aluminium zinc coating 150 grams per sqm on both sides (AZ 150 as per AS 1397 - 1993), in minimum 300 mpa yield strength with super durable polyester colourboard XRW of approved color. Total coating thickness of 35 microns, comprising of 20 mm microns exterior coat on top surface and 5 micron reverse on back surface over 5 micron epoxy primer coats on both surface includgin" side and laps of approved color and shade as per EIC. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length up to 12 meters 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 up to any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting toR size and shape wherever required. The sheets shall have brand make marking of manufacturer giving product details on the back of sheet at every regular interval for conforming genuinely of material. (Based on 12.50-A187)"	100	75	00	175.00	SQm		
132	Provide and install sacrificial zinc anodes Fosroc Galvashield XPI, to prevent the initiation of corrosion in steel reinforcement within chloride-contaminated or carbonated concrete, or in new construction. Each anode unit must contain a minimum of 60 grams of zinc, compliant with ASTM B418-95a, Type I, die-cast around steel tie wires, ensuring proper separation if multiple tie wires are used. The anodes must be encapsulated in a highly alkaline cementitious mortar with a pH of 14 or higher, free from sulfates, chlorides, bromides, or any other corrosive elements to steel. The encapsulating mortar should feature an interconnected and fine pore structure to dissolve, transport, and accommodate zinc corrosion products away from the anode surface without causing additional stress to the concrete cover, maintaining a pH > 14 near the uncorroded zinc for the specified service life. Anode units shall be supplied with integral, well-separated tie wires (without splices if multiple wires are used) and loop ties for direct attachment to the reinforcing steel. Anodes should be covered with a bed mortar with resistivity less than 50 kOhm-cm or similar to the parent concrete on cleaned steel reinforcement before applying passivation coating. The scope includes supply, installation, spacing calculations, quality assurance procedures, and must adhere to manufacturer specifications. Approved brand shall be M/s Fosroc Galvashield Anodes/Vector Galvashield/IPSS	200	15	50	265.00	Nos		

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133	Felling trees of the girth (measured at a height of 1 m above ground level), including cutting of trunks and branches, removing the roots and stacking of serviceable material and disposal of unserviceable material. Beyond 60 cm girth upto and including 120 cm girth	00	00	4	4.00	Each		
134	Add for plaster drip course/groove in plastered surface or moulding to R.C.C. projections	00	00	750	750.00	M		
135	Cement plaster skirting (upto 30 cm height) with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement. 18 mm thick	00	00	11	11.00	sqm		
136	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete with base of cement mortar 1:4 (1 cement : 4 coarse sand) : 25 mm thick	00	00	9	9.00	sqm		
137	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12mm (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 slabs, including rubbing and polishing complete.	00	00	3.00	3.00	sqm		
138	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), Jointing with grey cement slurry @ 3.3 kg/sqm including pointing the joints with white cement and matching pigment etc., complete.	00	00	12.00	12.00	sqm		
139	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600 mm	00	00	255.00	255.00	sqm		
140	Providing and fixing pre-coated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by 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.	00	00	220	220.00	SQM		
141	ccccin cement plaster work in proportion recommended by the manufacturers. (Per Bag of 50 KG cement used in the mix)	00	00	45	45.00	Each		
142	Extra for using white cement in place of ordinary cement in the top layer of the item of washed stone grit plaster.	00	00	785	785.00	SQM		
143	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. Flexible pipe- 32 mm dia	00	00	30	30.00	Each		
144	Providing and fixing false ceiling at all heights with integral densified calcium silicate reinforced with fibre and natural filler false ceiling tiles of Size 595x595mm of approved texture, design and patterns as per CPWD Specification 2019, to be laid in true horizontal level suspended on inter-locking metal T-Grid of hot dipped galvanised iron section of 0.33mm thick (galvanized @ 120 grams per sqm including both sides) comprising of main-T runners of size 24x38 mm of length 3000 mm, cross - T of size 24x32 mm of length 1200 mm and secondary intermediate cross-T of size 24x32 mm of length 600mm to form grid module of size 600 x 600 mm, suspended from ceiling using galvanised mild steel items (galvanizing @ 80 grams per sqm) i.e. 12x50 mm long dash fasteners, 6 mm dia fully threaded hanger rod upto 1000 mm length and L-shape level adjuster of size 76x25x25x1.6 mm fixed with grid and Z cleat of size 25x37x25x1.6mm thick with pre-cut hole on both 25mm flange to pierce into 12x50mm or even bigger size dash fastener if require, fixed with Glavanised iron perimeter wall angle or size 24x24x0.40 mm of length 3000 mm to be fixed on periphery wall / partition with the help of plastic rawl plugs at 450mm center to center and 40 mm long dry wall S.S screws. The work shall be carried out as per specifications, drawing and as per directions of the Engineer-in Charge. With 15 mm thick tegular/butt edged without perforation plain/designer light weight calcium silicate Anti-Microbial Bio-Safe coated false ceiling tiles Confirming to JIS-Z2801 and ASTM G-21	00	00	168.00	168.00	SQM		
145	Removing of damaged / broken / twisted IRC welded mesh fencing panels repairing of damaged / broken members , replacing new members if required, setting right the fencing panel in proper shape and size as per site requirement, re-fixing of panel at old location / new location in proper position and required alignment, Rate includes the cost of all labour , T & P , welding rods, welding machine, etc complete. The cost of structural steel and nut bolts, washers, IRC welded Mesh etc., if required will be paid separately.	00	00	350.00	350.00	SQM		
146	Providing & Laying glass fiber cloth of approved quality all complete as per direction of engineer incharge.	00	00	10.00	10.00	sqm		
147	Providing and fixing 60 cm long PVC rain water spout in proper line and level in cement mortar 1:4 (1 cement : 4 fine sand) in the existing khurra level, dismantling wall/ pipe and making hole of required size for fixing of pipe, filling CC 1:3:6 (1 cement :3 coarse sand : 6 graded stone aggregate 20mm nominal size) between wall and pipe, plastering both sides of walls with cement mortar 1:4 (1 cement :4 fine sand) and making the pipe joint leak proof.	00	00	16.00	16.00	Each		
148	Chipping of Unsound Concrete :Cleaning the concrete surface by removing dirt and debris, marking defective locations and Chipping/removing of loose/Unsound/weak concrete from slabs beams , columns etc by careful stripping until hard surface is exposed, cutting the concrete to regular shape, wire brushing the exposed surface and removing debris from site complete as per direction of the Engineer - in - Charge. Upto 75mm average. Protective coating: Applying two coats of surface applied Bipolar Corrosion inhibitor FAIRCRETE C SURFACE APPLIED or equivalent as per manufacturer's specification and direction of the Engineer	00	00	250.00	250.00	SQM		
149	Providing and applying Reebaklens RR, a combination of acid based material, corrosion inhibitors and dispersing agents rust remover, for removal of all rust/ scales/corrosion from reinforcement bars before microconcreting or patch repair, having Specific Gravity 1.16-1.22. Reebaklens RR Shall be applied with brush for complete wetting of rusted metal surface at coverage of 2-2.5 Sqm/ltr. & allow it to react for 16-24 hours. After 24 hours, a white layer will appear which will protect further corrosion of metal /steel for about 5-7 days. Before applying any protective coating, the surface should be wire brushed and thoroughly cleaned for dust with dry cloth.	00	00	8.00	8.00	SQM		

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150	Providing and applying Nitozinc Primer an epoxy based zinc rich anti corrosive primer having adhesive bond strength ≥ 1.5 MPa as per ASTM D4541, & shall comply to per ASTM B-117 to be applied on well cleaned, fully exposed and all loose scale, rust free surface obtained by grit blasting or suitable means, to be done with coverage @4.5sqm/litres to achieve a minimum thickness of 40microns DFT or as per direction of Engineer-In charge.	00	00	8.00	8.00	SQM		
151	Providing and applying Renderoc SP40 shrinkage compensated fiber reinforced polymer modified wet spray repair mortar on the prepared surface and curing with curing compound. The repair mortar used shall be single component and shall be mixed with water at water powder ratio of 0.18 and shall have drying shrinkage < 1000 microstrain as per ASTM C 157-93; compressive strength > 40 MPa ; Flexural Strength > 7 Mpa as per ASTM C 348, bond strength > 6 MPa as per ASTM C 1042, etc complete. Product used shall have CE (CE-29842) marking and compliance according to Construction Products Directive 89/106/EEC (CPD). Cost of curing compound shall be paid separately. Thickness 25mm. [Polymer Modified Mortar for Surface Repair (Lesser thickness & Larger surface area- Wet spray mortar)]	00	00	250.00	250.00	SQM		
152	Providing and applying Concure 1315, a acrylic polymer based non-degrading single component having solid content 33% to be applied over the freshly casted concrete members. The coating shall be applied using brush/roller/roller @ consumption of 200ml/coat/sqm. The coating shall comply to ASTM C1315 Type 2, & shall have moisture retention < 0.4 kg/m ² as per ASTM C156, Adhesion of tile cement : >0.5 N/mm ² .[Curing Compound]	00	00	250.00	250.00	SQM		
153	Polyurethane Waterproofing by Dr.Fixit Flexi PU 270(I) : Removing & chipping off of existing loose plaster. Clean the surface from contaminants with brush. Remove any sharp protrusion on the blinding layer by chipping and local repairs. Surface Preparation: All surfaces which are to receive the coating must be free from oil, laitance, grease, wax, dirt or any other form of foreign matter which might affect adhesion. Cut back any protrusions. Typically concrete surfaces can be cleaned using high pressure water jet or by proper wire brushing/grinder. All cracks, construction joints, honey combed/damaged surface to be repair with PMM and cracks to be chase out by cutting 25mm x 25mm "V" shape groove all along the crack, cleaning cracks and sealing it using Mesto Grout HS, curing etc., all complete as per the manufacturer's specification and direction of engineer-in-charge. L Shape, Angular Fillet: Providing 50 mm X 50 mm angle fillets on the vertical up-stands, parapet wall junction corners, service units and properly dressed by preparing polymer modified mortar with Pidicrete URP or equivalent in the ratio of 1:3 by adding polymer 10% by weight of the cement, add little water, until the required consistency is achieved. Injection Grouting: Providing and applying injection grouting treatment by chemical injection grout process at construction joints, wall joints, honey comb areas etc. in concrete surface or the area using nozzles of min 25-50mm deep in slabs along with construction joints consisting of injection cement slurries of different viscosities under pressure by pump using injection grout waterproofing chemical (Pidicrete AM) mixed with neat cement slurry and sealing off nozzles after the injection operation. Screeding: Providing and laying of average 75mm thick (or suitable thickness for necessary slope) concrete screed of minimum M 20 grade concrete. PU Waterproofing Coating: Supplying and applying, Dr.Fixit Flexi PU 270(I) highly flexible is a liquid-applied, highly permanent elastic, cold applied and cold curing single component polyurethane cold applied coating system water proofing liquid membrane after applying Dr.Fixit Flexi PU 270(I). Over the primer coat . Polyurethane Dr.Fixit Flexi PU 270(I), shall be laid using Brush/roller in 3 layers to attain a seamless state of membrane. After applying the first coat of Dr.Fixit Flexi PU 270(I) leave dry for 8-10 hours, then apply the second coat of Dr.Fixit Flexi PU270(I) leave dry for 8-10 hours. Then the final coat of Dr.Fixit Flexi PU 270(I) leave dry for 8-10 hours. The layers of the liquid membrane to be terminated properly. properties polyurethane membrane with elongation of 400% as per ASTM D 412, tensile strength of 4 Nsqmm as per ASTM D412, shore hardness (shore A scale) 65 as per ASTM D 2240, adhesion to concrete > 2.0 N/mm ² as per ASTM D 903 applied in 3 coats at a total consumption of min. 2 Kg./ Sq.Mt.	00	00	270.00	270.00	SQM		
154	Drilling and fixing NRV injection packers in RC members for Epoxy or PU Injection including, drilling holes in structural members at the intervals as per recommendations/ requirements, cleaning the holes by air blower prior to fixing nozzles. Insert 12 mm dia., 50-75 mm long injection packers in cleaned holes with solvent free, moisture insensitive epoxy resin based putty or equivalent. Cut the packers by cut of wheel after completion of grouting without damaging structural elements.	00	00	440.00	440.00	Nos		
155	Pressure Grouting with Epoxy Resin: Perform pressure grouting using Conbextra EP10, a low viscous solvent-free two-component epoxy resin with a density of 1050 kg/m ³ . Ensure the epoxy resin has viscosity < 0.6 poise (ASTM D1200), compressive strength > 80 MPa (ASTM D 695), and bond strength > 4 MPa (ASTM C882). Use products with CE marking and compliance according to Construction Products Directive 89/106/EEC. Mix epoxy resin components in required quantities as per manufacturer's instructions. Fill the grouting gun with epoxy resin and maintain desired pressure using an air compressor. Grout the material through prefixed nozzles in structural elements until refusal, sealing the nozzles with epoxy putty afterward. Monitor and seal leakages through other nozzles as required. Complete the operation within the pot life of the material. Clean the grouting gun and accessories with thinner after the operation to prevent jamming.	00	00	380.00	380.00	KG		
156	Providing and applying bond coat on the prepared surface with two component epoxy based bonding coat Nitobond EP of Fosroc make or equivalent, having specific gravity 1.15 to 1.2 gm/cc., The bonding agent shall be applied by brush & should remain in tacky state after application for a minimum period of 5-6 hrs at 20 deg C & 2-3 hrs at 30 deg C. Laying of reinstatement polymer modified mortar or micro concrete shall be completed within the overlay time of bonding coat.	00	00	125.00	125.00	SQM		
157	Construction of Horizontal and Vertical Seismic Band as per IS: 13925 by cutting chase in existing plaster by mechanical cutter, removing plaster, raking expose joints, cleaning, providing and fixing 3.25 mm dia (Gauge 10) Galvanised steel wire fabric mesh with spacing 25 mm x 25 mm to be fixed & firmly anchored to the surface of Brick masonry, stone masonry or concrete by means of GI steel shear key or bolts and tying the mesh to the bolts with GI binding wire including fixing the steel bars in position using epoxy resin anchor grout of approved make complete with cost of labour, tool & plants etc. complete as required for fixing as per direction of Engineer-in-charge.	00	00	325.00	325.00	SQM		
158	Providing and fixing UPVC (SWR) pipes Class B conforming to IS 13592 for soil, waste and vent pipes including all fittings rubber ring type (plain or access door) e.g. bends, junctions, cowls, offsets, access pieces etc., jointing with rubber ring joints(a) 80 mm dia	00	00	10.00	10.00	M		
159	Providing and fixing UPVC floor traps, self closing type having 50mm lead water seal with or without vent arm etc. complete including cost of cutting and making good the walls and floors wherever required. (110 x80 mm)	00	00	5.00	5.00	Each		
160	P/F of CP jali of appd design and shape: 100 mm dia. (AR522)	00	00	5.00	5.00	Each		

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161	Providing and fixing on wall face unplasticised - PVC moulded fittings/accessories for unplasticised - Rigid PVC rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion. Bend 87.5°-110 mm bend. (12.42.5.2-AR180)	00	00	15.00	15.00	Each		
162	Providing and fixing on wall face unplasticised - PVC moulded fittings/accessories for unplasticised - Rigid PVC rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion. coupler- 110 mm. (12.42.1.2-AR174)	00	00	15.00	15.00	Each		
163	Supply of 9" dia exhaust fan with gravity louers & bird screen	00	00	4	4.00	Each		
164	Providing and Laying 150 mm dia PVC pipe (Heavy duty-working pressure 6Kg/cm2) of Prakash or equivalent make as per required slope for sewer line including jointing etc. complete as per direction of Engineer-in-charge (Wt. of pipe-22 Kg approx).	00	00	80	80.00	M		
165	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) upto haunches of S.W. pipes including bed concrete as per standard design : 150 mm dia SW pipe. (19.3.2-AR444)	00	00	80	80.00	M		
166	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) Laying brick bats with mortar using broken bricks/brick bats 25mm to 115mm size with 50% of cement mortar 1:5 (1cement : 5coarse sand) admixed with water proofing compound conforming to IS: 2645 and approved by Engineer -in charge over 20 mm thick layer of cement mortar of mix 1:5 (1cement : 5coarse sand) admixed with water proofing compound conforming to IS: 2645 and approved by Engineer -in charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs. (b) After two days of proper curing applying a second coat of cement slurry using 2.75 kg/ sqm of cement admixed with water proofing compound conforming to IS: 2645 and approved by Engineer -in charge. (c) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1cement :4coarse sand) admixed with water proofing compound conforming to IS: 2645 and approved by Engineer-in-charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3 mm deep. (d) 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. With average thickness of 120 mm and minimum thickness at khurra as 65 mm	00	00	270	270.00	Sqm		
167	Supply and apply Nitobond AR, an acrylic-based emulsified solution containing a minimum of 43% solids and compatible with cementitious materials. The bonding agent shall provide sufficient bond strength when applied directly on concrete or when mixed with neat cement. Ensure proper application to achieve effective adhesion between substrates and subsequent layers of cementitious materials, adhering to manufacturer's recommendations for optimal performance and durability in construction applications. Nitobond AR is particularly suitable when a longer working period after applying the bonding agent is required	00	00	150.00	150.00	Sqm		
168	Surface Preparation: Make a 'V' groove 5 mm wide and 5 mm deep over the crack line using an electrically operated angle grinder with a diamond concrete saw blade. Clean the groove thoroughly with an air blower as directed by the Engineer-in-charge.	00	00	85.00	85.00	M		
169	Sealing with Epoxy Repair Mortar: Seal the exposed 'V' groove (5 mm deep, 5 mm wide) with a solvent-free, moisture-tolerant, thixotropic, two-part structural adhesive and epoxy repair mortar cum surface leveling mortar. Ensure the epoxy repair mortar has compressive strength ≥ 60 N/mm ² (7 Days, BS 6319), flexural strength ≥ 20 N/mm ² (7 Days, BS 6319), and tensile strength ≥ 10 N/mm ² (7 days, ASTM C 307). Use products like NITOMORTAR S OF FOSROC, Sikadur®-31 of Sika, MasterBrace 2200 BASF, or equivalent of Pidilite.	00	00	85.00	85.00	M		
170	Supply and install reinforcement bars using Heavy Duty rebaring chemical Fosroc LOKFIX E77 for main bars and LOKFIX E45T for shear connectors, pure epoxy chemical anchor grout with ETA approval from DIBt, suitable for reinforcement bars ranging from 8 mm to 40 mm in diameter at specified embedment depths as per manufacturer's specifications. The epoxy chemical must have a working life period certified for 50 or 100 years as per ETA from DIBt, with properties including fire resistance tested to withstand 120 minutes (DIN EN 1363-1:2012, Technical Report TR 020), and must have water tightness certificate for "0" mm under 5 bar water pressure (EN 12390-8:2019). ETA approval from DIBt for Diamond Drilling is required, alongside LEED certification and compliance with LEED V4 standards (ISO 16000, EN 16516, CDPH 01350, ASTM D2369, EPA method 24). Rates shall encompass labor, tools and plants for power drilling in concrete, epoxy cartridges, plastic nozzles, and complete drilling holes with dust removal by air blowing. Additional charges apply for reinforcement bars. (Product :- Lockfix of Fosroc/ RE-500 of Hilti/ MasterFlow 935 AN of BASF/ Fischer/Wruth) Rebar 10 mm Dia x 14 mm holes x 100mm depth	00	00	70.00	70.00	Nos		
171	Supply and install reinforcement bars using Heavy Duty rebaring chemical Fosroc LOKFIX E77 for main bars and LOKFIX E45T for shear connectors, pure epoxy chemical anchor grout with ETA approval from DIBt, suitable for reinforcement bars ranging from 8 mm to 40 mm in diameter at specified embedment depths as per manufacturer's specifications. The epoxy chemical must have a working life period certified for 50 or 100 years as per ETA from DIBt, with properties including fire resistance tested to withstand 120 minutes (DIN EN 1363-1:2012, Technical Report TR 020), and must have water tightness certificate for "0" mm under 5 bar water pressure (EN 12390-8:2019). ETA approval from DIBt for Diamond Drilling is required, alongside LEED certification and compliance with LEED V4 standards (ISO 16000, EN 16516, CDPH 01350, ASTM D2369, EPA method 24). Rates shall encompass labor, tools and plants for power drilling in concrete, epoxy cartridges, plastic nozzles, and complete drilling holes with dust removal by air blowing. Additional charges apply for reinforcement bars. (Product :- Lockfix of Fosroc/ RE-500 of Hilti/ MasterFlow 935 AN of BASF/ Fischer/Wruth) Rebar 12 mm Dia x 16 mm holes dia x 120 mm depth	00	00	30.00	30.00	Nos		

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172	Supply and install reinforcement bars using Heavy Duty rebaring chemical Fosroc LOKFIX E77 for main bars and LOKFIX E45T for shear connectors, pure epoxy chemical anchor grout with ETA approval from DIBt, suitable for reinforcement bars ranging from 8 mm to 40 mm in diameter at specified embedment depths as per manufacturer's specifications. The epoxy chemical must have a working life period certified for 50 or 100 years as per ETA from DIBt, with properties including fire resistance tested to withstand 120 minutes (DIN EN 1363-1:2012, Technical Report TR 020), and must have water tightness certificate for "0" mm under 5 bar water pressure (EN 12390-8:2019). ETA approval from DIBt for Diamond Drilling is required, alongside LEED certification and compliance with LEED V4 standards (ISO 16000, EN 16516, CDPH 01350, ASTM D2369, EPA method 24). Rates shall encompass labor, tools and plants for power drilling in concrete, epoxy cartridges, plastic nozzles, and complete drilling holes with dust removal by air blowing. Additional charges apply for reinforcement bars. (Product :- Lockfix of Fosroc/ RE-500 of Hilti/ MasterFlow 935 AN of BASF/ Fischer/Wruth) Rebar 16 mm Dia x 20 mm holes dia x 160 mm depth	00	00	10.00	10.00	Nos		
173	Providing and applying uni directional, high strength carbon fiber sheets Nitowrap CWS of 450 GSM/ dry fabric thickness. The FRP fabric used shall be of zero degree unidirectional fibers having fiber density of 1.8 g/cc and shall have tensile strength > 4900 MPa ; tensile modulus > 230 GPa and ultimate elongation of 2.1%. The substrate shall be primed with Nitowrap 30 epoxy primer & Nitowrap 410 impregnating resin saturant shall be used for saturating the fibers. Saturant used shall have tensile strength of >30 MPa; Elongation > 2% ; Flexural strength > 30 MPa ; Tensile Modulus > 2400 MPa & Flexural Modulus > 1700 MPa when tested as per ASTM D638 Type I and ASTM D 790 & Glass Transition Temperature > 50 deg Celcius as per ASTM E 1356. The adhesion of the entire system (FRP Sheet, Saturant and primer combined) with concrete shall be > 3.5 MPa with concrete failure as per ASTM D 4541. (Product :- Nitowrap CWS of 450 GSM of Fosroc, Sikawrap® 930 G of Sika / MasterBrace FIB 73/900 of BASF) Surface preparation: Grinding/ moulding concrete substrate cleaning it with wire brush removing oil, laitance if present, rounding sharp edges to min 25mm radius etc. complete. Profiling : Applying compatible primer of approved make and brand on prepared substrate, filling the holes and uneven surface with thixotropic putty etc. complete. Wrapping : Wrapping the fiber sheet with recommended overlapping to structural element at desired orientation using tamping roller to avoid any air voids etc. repeat the same procedure for multiple layer with the interval of 8 hrs. Sand Pasting : Applying second coat of saturated after 12 hrs. rectify air voids if any, paste the coarse sand on it to make surface rough to take any further finishes (Mode of measurement : Per sqm surface area of application per layer).	00	00	25.00	25.00	SQM		
174	Supply and install fiber anchors to be embedded at a depth of 75 mm with 75 mm protrusion, spaced at 500 mm center to center. (Product make: Fosroc/ Sika/ BASF)	00	00	75.00	75.00	Nos		
175	Water-stopping crack injection resin foam shall be Nitofill WS60, a two-part foaming liquid polyurethane. When mixed in the supplied proportions and injected into concrete cracks, the resin reacts with moving water to create a foam barrier that stops water infiltration. The resin's properties include a pot life of 6-8 hours at 20°C, specific gravity of 1.11 ± 0.03, and foam density of 0.024g ± 0.003. Used alongside Nitofill UR63, a flexible two-part polyurethane injection resin, it ensures a permanent seal in cracked concrete. Nitofill UR63 is a solvent-free liquid polyurethane that, when mixed and injected into cracks, forms a slightly flexible and impermeable barrier in dry and damp conditions. This polyurethane system features a pot life of 60 to 80 minutes at 25°C, reaction time of 70 to 90 minutes at 25°C, viscosity of 40-60 cps at 25°C, and specific gravity of 1.1. When combined with Nitofill WS60, the foaming polyurethane resin, it guarantees a durable seal in cracked concrete. Nitofill WS60	00	00	25.00	25.00	Kg		
176	Water-stopping crack injection resin foam shall be Nitofill WS60, a two-part foaming liquid polyurethane. When mixed in the supplied proportions and injected into concrete cracks, the resin reacts with moving water to create a foam barrier that stops water infiltration. The resin's properties include a pot life of 6-8 hours at 20°C, specific gravity of 1.11 ± 0.03, and foam density of 0.024g ± 0.003. Used alongside Nitofill UR63, a flexible two-part polyurethane injection resin, it ensures a permanent seal in cracked concrete. Nitofill UR63 is a solvent-free liquid polyurethane that, when mixed and injected into cracks, forms a slightly flexible and impermeable barrier in dry and damp conditions. This polyurethane system features a pot life of 60 to 80 minutes at 25°C, reaction time of 70 to 90 minutes at 25°C, viscosity of 40-60 cps at 25°C, and specific gravity of 1.1. When combined with Nitofill WS60, the foaming polyurethane resin, it guarantees a durable seal in cracked concrete. Nitofill UR63	00	00	25.00	25.00	Kg		
177	Supply and apply Dekguard E2000, a high-performance elastomeric protective anticarbonation coating for concrete and masonry. The protective coating system includes a penetrating silane-siloxane primer (Dekguard Primer) and a single-component elastomeric anticarbonation aliphatic acrylic coating (Dekguard E2000). Ensure the total dry film thickness of the protective coating system is not less than 200 microns. The coating system shall provide CO2 diffusion resistance of at least 50 meters (equivalent air layer thickness), static crack accommodation of minimum 2mm, and adhesion greater than 1.0 N/mm² as per ASTM D 4541. The product used must meet specified performance standards for durability and protection against carbonation. Apply in accordance with manufacturer's guidelines to ensure effective long-term performance and adherence to project requirements	00	00	60.00	60.00	Sqm		
178	Providing, cutting and laying SWG10 welded wire mesh and mesh size 50x50 mm including anchoring it on the wall with 4.75mm bar by drilling and fixing with cement slurry as per drawing details, specification and instruction by the Engineer.	00	00	60.00	60.00	Sqm		
179	Provide and apply single-component, free-flowing, non-shrink cementitious microconcrete at a water-to-powder ratio of 0.15. The microconcrete should have a fresh wet density of 2200 kg/m³ at 27°C and an unrestrained expansion of 1 to 4% as per ASTM C827. It must achieve a flowable consistency and compressive strength of not less than 10 N/mm² after 24 hours, 35 N/mm² after 7 days, and 45 N/mm² after 28 days at 30°C. The cured microconcrete shall be free from metallic aggregates and chlorides, and it must be shrinkage-compensated in the plastic state. Payment will be based on the consumed dry material of the microconcrete mix (Product :- Renderoc RG 45 of Fosroc/ SikaRep® Microcrete -4 of Sika / MasterEmaco S-346 of BASF or equivalent of Pidilite) Without addition of aggregate	00	00	2.00	2.00	TON		

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180	Provide and apply single-component, free-flowing, non-shrink cementitious microconcrete at a water-to-powder ratio of 0.15. The microconcrete should have a fresh wet density of 2200 kg/m³ at 27°C and an unrestrained expansion of 1 to 4% as per ASTM C827. It must achieve a flowable consistency and compressive strength of not less than 10 N/mm² after 24 hours, 35 N/mm² after 7 days, and 45 N/mm² after 28 days at 30°C. The cured microconcrete shall be free from metallic aggregates and chlorides, and it must be shrinkage-compensated in the plastic state. Payment will be based on the consumed dry material of the microconcrete mix (Product :- Renderoc RG 45 of Fosroc/ SikaRep® Microcrete -4 of Sika / MasterEmaco S-346 of BASF or equivalent of Pidilite) With addition of 6 mm down aggregate in 3:1 (3 Micro concrete: 1 aggregate 6 mm & down)	00	00	2.00	2.00	TON		
181	12mm ready mix cement plaster - Ready mix cement plaster/ render with high quality polymer additives, special binders, well graded sand and fillers can be applied onbrick & block masonry for both external and internal plastering works.(UltraTech Readiplast / Fosroc)	00	00	350.00	350.00	SQM		
182	6mm ready mix cement plaster - Ready mix cement plaster/ render with high quality polymer additives, special binders, well graded sand and fillers can be applied onbrick & block masonry for both external and internal plastering works.(UltraTech Readiplast / Fosroc)	00	00	294.00	294.00	SQM		
183	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in cement mortar 1 : 4 (1 cement : 4 coarse sand)	00	28	00	28.00	cum		
184	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 : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.Granite stone slab colour black, Cherry/Ruby red : Area of slab over 0.50 sqm	00	38.5	00	38.50	SQM		
185	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	00	150	00	150.00	KG		
186	P/F MS chequered plate i/c cutting, straightening, rounding of edges, making lifting arrangement & fixing by welding to M.S angle frame etc. (AR142)	00	10	00	10.00	KG		
187	Providing and laying Vitrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @3.3 kg/sqm including grouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only . Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently and easily. Double charge vitrified tile polished finish of size - Size of Tile 800 x 1200 mm	255	255	255	765.00	SQM		
188	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 (1cement: 3 coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including grouting the joint with white cement & matching pigments etc. complete. Size of Tile 800x800 mm	255	255	255	765.00	sqm		
189	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 m x1 m x 400 micron, finished with 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.	00	8	00	8.00	Each		
190	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes. 110 mm diameter metre 319.75	00	80	00	80.00	M		
191	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.Single tee with door 12.42.3.2 110x110x110 mm	00	16	00	16.00	Each		
192	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.Bend 87.5° 110 mm bend	00	8	00	8.00	Each		
193	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm and 340x410x265 mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required : One urinal basin with 5 litre white P.V.C. automatic flushing cistern	00	6	00	6.00	Each		
194	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. Flexible pipe- 32 mm dia	00	5	00	5.00	Each		
195	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. 20 mm nominal dia Pipes (Internal work - Exposed on wall)	00	150	00	150.00	M		
196	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. 20 mm nominal dia Pipes (Concealed work, including cutting chases and making good the walls etc.)	00	150	00	150.00	M		
197	P/F of CP jall of appd design and shape: 100 mm dia. (AR522)	00	3	00	3.00	Each		
198	Providing and fixing on wall face unplasticised - PVC moulded fittings/accessories for unplasticised - Rigid PVC rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion. Bend 87.5°-110 mm bend. (12.42.5.2-AR180)	00	10	00	10.00	Each		
199	Providing and fixing on wall face unplasticised - PVC moulded fittings/accessories for unplasticised - Rigid PVC rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion. coupler- 110 mm. (12.42.1.2-AR174)	00	10	00	10.00	Each		

S.No	Description	Quantities				Unit	Rate (In Rs.) e/x GST	Amount (In Rs.) e/x GST
		PART-A	PART-B	PART-C	Total Quantities			
200	Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid decorative type 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/mm2, modulus of elasticity 850 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. WPC to be laminated with PVC foil of minimum 14 microns thick of approved design pasted with hot melt adhesive on both faces of shutter and fixing with stainless steel butt hinges of required size with necessary full body threaded star headed counter sunk S.S screws, all as per direction of Engineer-In- Charge. (Note: stainless steel butt hinges and necessary S.S screws shall be paid separately) 30 mm thick	00	13.91	00	13.91	sqm		
201	Panic Trim:- Supply of DORMA (Model No. PHCR 2905) Make Panic Trim with Latch Handle	00	6	00	6.00	Each		
Total cost e/x GST@18% of I								
II IT WORK								
S.No	Description	Qty.				Unit	Rate	Amount
1	IT Points	50				Pnt		
Total cost e/x GST@18% of II								
III FIRE WORK								
S.No	Description	Qty.				Unit	Rate	Amount
1	Smoke detector	15				Ea		
2	Alarm/Hooter	1				Ea		
3	Fire alarm panel	1				Ea		
4	Cabel	150				Mtr		
Total cost e/x GST@18%-III								
IV AC WORK								
S.No	Description	Qty.				Unit	Qty.	Amount
1	Supply & Installation of Split AC 1.5 Ton,5 Star Inverter AC with R-32/410 green Gas and Max Ambient Temp-50 deg c with 3 metre copper pipe,pvc drain pipe and power cable. Make : Bluestar/voltas/Dakin	12				NOS		
2	Supply and installation of Stabilizer 4KVA voltage range (170V - 270 V) suitable for Inverter Split AC, Split AC Make : V-Guard/Blue Gaurd	12				NOS		
3	Supply and Installation of Out Door Unit Stand	12				NOS		
4	Supply and installation of extra copper pipe required for 1.5 ton & 2.0 Ton split AC installation as per site requirement (Suction line -1/2" + Liquid line- 1/4") with suitable foam insulation.(Over and above 3.0 Meter supplied with AC unit)	36				MTR		
5	Supply and installation of extra PVC Hard drain pipe 25mm with Accessories required for installation.	36				MTR		
6	Supply and Installation of Electrical Cable (3C * 2.5 Sq.mm) (Over and above 3.0 Meter supplied with AC unit)	100				MTR		
Total cost e/x GST@18% of IV								
V FURNITURE WORK								
S.No.	Description	Qty				Unit	Rate	Amount
1	Curvilinear Worksurface Cockpit (Prelam)-1500 X 1500 X 450 X 750mm	10				Nos.		
2	Worksurface (Prelam) -1200 X 600 X 25mm	35				Nos.		
3	Keyboard Drawer with Mouse Tray (M.S) - 510 X 450 X 55mm	45				Nos.		
4	CPU Trolley (Metallic)-245 X 245 X 240mm	45				Nos.		
5	Pedestal 3D(2D+1 FD) on Castors (Prelam) -400 X 495 X 702mm	45				Nos.		
6	Board Side (BSL) 600 X 18 X 725mm	25				Nos.		
7	Panel 62mm Sonata TA System-Prelam/Softboard/Fabric/LWB double race way-1194 mm Height	73				m ²		
8	Table Board Prelam 25 mm thk Board - 1500x750x750mm	2				Nos.		
9	Side Runner prelam -900x375x750mm	2				Nos.		
10	Vertical Storage Unit (Prelam)-894 X 450 X 1200mm	20				Nos.		
11	Low Back Staff Chairs-Low back chair for staff with triangle PP arms with gas lift & push back arrangement,metal stand	55				Nos.		
12	High Back Chair	10				Nos.		
13	MS Legs-75x725mm	10				Ea		
14	Meeting Table	1				Ea		
15	center table	1				ea		
16	sofa 4 seater	1				ea		
Total cost e/x GST@18% of V								
Grand Total e/x GST@18 of Package III (I+II+III+IV+V)								

ATTACHMENT-IV
PACKAGE-IV-Price Breakup

PART-A- Retrofitting work at Lahori Gate Office Complex

PART-B-Retrofitting work at Lahori Gate Grid

PART-C-Retrofitting work at 33KV Jama Masjid Grid

S.No.	Description	Quantities				Unit	Rate (In Rs.) e/x GST	Amount (In Rs.) e/x GST
		PART A	PART B	PART C	Total Quantities			
I	CIVIL WORK							
1	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 disposal of excavated earth, lead upto 50 m and lift upto 1.5 m, disposed earth to be levelled and neatly dressed : All kinds of soil.	258.00	150.00	150.00	558.00	CUM		
2	Extra for every additional lift of 1.5 m or part thereof in excavation /banking excavated or stacked materials. All kinds of soil	176.00	100.00	100.00	376.00	CUM		
3	Close timbering in trenches including strutting, shoring and packing cavities (wherever required) complete. (Measurements to be taken of the face area timbered). Depth not exceeding 1.5 m	75.00	0.00	0.00	75.00	SQM		
4	Close timbering in trenches including strutting, shoring and packing cavities (wherever required) complete. (Measurements to be taken of the face area timbered).Depth exceeding 1.5 m but not exceeding 3 m	38.00	0.00	0.00	38.00	SQM		
5	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth,consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	230.00	100.00	100.00	430.00	CUM		
6	Supplying chemical emulsion in sealed containers including delivery as specified. Chlorpyriphos/ Lindane emulsifiable concentrate of 20%	162.00	100.00	100.00	362.00	Ltr		
7	Diluting and injecting chemical emulsion for anti-termite treatment (excluding the cost of chemical emulsion) in bases of footings, vertical faces of brick wall/ RCC column, under floors, along external walll, apron , etc complete as per relevant IS codes (plinth area shall be measured for payment): With Chlorpyriphos/ Lindane E.C. 20% with 1% concentration	176.00	100.00	100.00	376.00	SQM		
8	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	34.00	75.00	365.00	474.00	CUM		
9	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth.	34.00	50.00	50.00	134.00	SQM		
10	Providing and laying in position ready mixed or site batched design mix cement concrete for plain cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana/Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering and finishing as per direction of the engineer-in-charge; for the following grades of concrete. (make- ACC, Lafarage, Afcon, Ultra Tech) Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 110% of the minimum specified cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement. All works upto plinth level : Concrete of M10 grade with minimum cement content of 220 kg /cum	14.00	5.00	5.00	24.00	CUM		

S.No.	Description	Quantities				Unit	Rate (In Rs.) e/x GST	Amount (In Rs.) e/x GST
		PART A	PART B	PART C	Total Quantities			
11	Providing and laying in position ready mixed M-25 grade concrete for reinforced cement concrete work, using cement content as per approved design mix, manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work, including pumping of R.M.C. from transit mixer to site of laying , excluding the cost of centering, shuttering finishing and reinforcement, including cost of admixtures in recommended proportions as per IS : 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability & Corrosion Resistance and water proofing as per direction of the Engineer - in - charge. (Note :- Cement content considered in this item is @ 330 kg/cum). All works upto plinth level (5.37.1) Make -ACC, Altratech, lafarge	70.00	10.00	10.00	90.00	CUM		
12	Providing and laying in position ready mixed M-25 grade concrete for reinforced cement concrete work, using cement content as per approved design mix, manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work, including pumping of R.M.C. from transit mixer to site of laying , excluding the cost of centering, shuttering finishing and reinforcement, including cost of admixtures in recommended proportions as per IS : 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability Corrosion Resistance and water proofing as per direction of the Engineer - in - charge. (Note :- Cement content considered in this item is @ 330 kg/cum). All works above plinth level upto floor V level (5.37.2-AR40)) Make -ACC, Altratech, lafarge	75.00	10.00	10.00	95.00	CUM		
13	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:1½:3 (1 Cement: 1½ coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	2.00	14.00	10.00	26.00	CUM		
14	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:4:8 (1 Cement : 4 coarse sand (zone-III) derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources)	18.00	0.00	88.50	106.50	CUM		
15	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor etc., up to floor five level, excluding the cost of centering, shuttering and finishing: 1:1½:3 (1 cement : 1½ coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	2.00	0.00	0.00	2.00	CUM		
16	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centring, shuttering, finishing and reinforcement - 1:1.5:3 (1 Cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	34.00	8.00	2.00	44.00	CUM		
17	Reinforced cement concrete work in beams, suspended floors, roofs having slope upto 15°, landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases upto floor five level excluding the cost of centring, shuttering, finishing and reinforcement with 1:1.5:3 (1 Cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	18.00	12.00	14.00	44.00	CUM		
18	Centring and shuttering including strutting, propping etc. and removal of form work for : Foundations, footings, bases of columns.	34.00	50.00	30.00	114.00	SQM		
19	Centring and shuttering including strutting, propping etc. and removal of form for: Suspended floors, roofs, landings, balconies and access platform	430.00	100.00	705.00	1235.00	SQM		
20	Centring and shuttering including strutting, propping etc. and removal of form for: Lintels, beams, plinth beams, girders, bressumers and cantilevers	176.00	80.00	100.00	356.00	SQM		
21	Centring and shuttering including strutting, propping etc. and removal of form for: Columns, Pillars, Piers, Abutments, Posts and Struts	300.00	330.00	370.00	1000.00	SQM		
22	Centring and shuttering including strutting, propping etc. and removal of form for: Stairs, (excluding landings) except spiral-staircases	46.00	50.00	50.00	146.00	SQM		

S.No.	Description	Quantities				Unit	Rate (In Rs.) e/x GST	Amount (In Rs.) e/x GST
		PART A	PART B	PART C	Total Quantities			
23	Reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete. cold twisted bars (Make- TATA/ SAIL)	25000.00	1000.00	12000.00	38000.00	KG		
24	Add for plaster drip course/groove in plastered surface or moulding to R.C.C. projections	106.00	0.00	0.00	106.00	M		
25	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in cement mortar 1 : 4 (1 cement : 4 coarse sand)	37.00	16.00	21.00	74.00	CUM		
26	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : Cement mortar 1:4 (1 cement : 4 coarse sand)	98.00	10.00	95.00	203.00	CUM		
27	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 : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.Granite stone slab colour black, Cherry/Ruby red : Area of slab upto 0.50 sqm	47.58	20.00	20.00	87.58	SQM		
28	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 : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.Granite stone slab colour black, Cherry/Ruby red : Area of slab over 0.50 sqm	34.00	15.00	0.00	49.00	SQM		
29	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	1150.00	3580.00	1450.00	6180.00	KG		
30	P/F MS chequered plate i/c cutting, straightening, rounding of edges, making lifting arrangment & fixing by welding to M.S angle frame etc. (AR142)	10.00	180.00	0.00	190.00	KG		
31	Providing and laying Vitrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @3.3 kg/sqm including grouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only . Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently and easily. Double charge vitrified tile polished finish of size Size of Tile 800 x 1200 mm	232.00	0.00	0.00	232.00	SQM		
32	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approvedmake, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete. Size of Tile 600x1200 mm		0.00	0.00	0.00	SQM		
33	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.).	78.00	0.00	0.00	78.00	KG		

S.No.	Description	Quantities				Unit	Rate (In Rs.) e/x GST	Amount (In Rs.) e/x GST
		PART A	PART B	PART C	Total Quantities			
34	52 mm thick cement concrete flooring with concrete hardener topping, under layer 40 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and top layer 12 mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate 6 mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufacturer's specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete.	184.00	0.00	0.00	184.00	SQM		
35	Cement plaster skirting (upto 30 cm height) with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement. 18 mm thick	16.00	175.00	455.00	646.00	SQM		
36	Providing and fixing glass strips in joints of terrazo/cement concrete floors. - 40 mm wide and 4 mm thick.	4.00	38.00	44.00	86.00	M		
37	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement :2 coarse sand : 4 graded stone aggregate of 10 mm and down gauge) including finishing with cement mortar 1:3 (1 cement: 3 fine sand) as per standard design : In 75 x75 mm deep chase	30.00	0.00	1280.00	1310.00	M		
38	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 m x1 m x 400 micron, finished with 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.	84.00	88.00	125.00	297.00	EACH		
39	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes. 110 mm diameter metre 319.75	8.00	12.00	14.00	34.00	M		
40	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.Single tee with door 12.42.3.2 110x110x110 mm	80.00	62.00	76.30	218.30	EACH		
41	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.Bend 87.5° 110 mm bend	16.00	0.00	0.00	16.00	EACH		
42	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required: White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	8.00	42.00	32.00	82.00	EACH		
43	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including W.C. pan with ISI marked white solid plastic seat and lid	2.00	1.00	1.00	4.00	EACH		
44	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm and 340x410x265 mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required : One urinal basin with 5 litre white P.V.C. automatic flushing cistern	6.00	2.00	1.00	9.00	EACH		
45	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require: White Vitreous China Flat back wash basin size 550x400 mm with single 15 mm C.P. brass pillar tap	6.00	2.00	2.00	10.00	EACH		
46	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. Flexible pipe- 32 mm dia	5.00	2.00	2.00	9.00	EACH		

S.No.	Description	Quantities				Unit	Rate (In Rs.) e/x GST	Amount (In Rs.) e/x GST
		PART A	PART B	PART C	Total Quantities			
47	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. 20 mm nominal dia Pipes (Internal work - Exposed on wall)	5.00	0.00	4.00	9.00	M		
48	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. 20 mm nominal dia Pipes (Concealed work, including cutting chases and making good the walls etc.)	200.00	25.00	25.00	250.00	M		
49	Providing and fixing brass bib cock of approved quality : 20 mm nominal bore	150.00	30.00	30.00	210.00	EACH		
50	Providing and fixing brass stop cock of approved quality : 20 mm nominal bore	5.00	4.00	4.00	13.00	EACH		
51	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet : 150 mm diameter	5.00	4.00	4.00	13.00	EACH		
52	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	5.00	1.00	1.00	7.00	PER LITRE		
53	Providing and Laying 110 mm dia PVC pipe (Heavy duty-working pressure 6Kg/cm ²) of Prakash or equivalent make as per required slope for sewer line including jointing etc. complete as per direction of Engineer-in-charge (Wt. of pipe-22 Kg approx).	1000.00	500.00	1000.00	2500.00	M		
54	Providing and fixing UPVC (SWR) pipes Class B conforming to IS 13592 for soil, waste and vent pipes including all fittings rubber ring type (plain or access door) e.g. bends, junctions, cowls, offsets, access pieces etc., jointing with rubber ring joints(a) 80 mm dia	300.00	0.00	0.00	300.00	M		
55	Providing and fixing UPVC floor traps, self closing type having 50mm lead water seal with or without vent arm etc. complete including cost of cutting and making good the walls and floors wherever required. (110 x80 mm)	100.00	0.00	0.00	100.00	EACH		
56	P/F of CP jalli of appd design and shape: 100 mm dia. (AR522)	3.00	0.00	0.00	3.00	EACH		
57	Providing and fixing on wall face unplasticised - PVC moulded fittings/accessories for unplasticised - Rigid PVC rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion. Bend 87.5°-110 mm bend. (12.42.5.2-AR180)	3.00	0.00	0.00	3.00	EACH		
58	Providing and fixing on wall face unplasticised - PVC moulded fittings/accessories for unplasticised - Rigid PVC rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion. coupler- 110 mm. (12.42.1.2-AR174)	8.00	0.00	0.00	8.00	EACH		
59	Providing and Fixing bevelled edge mirror of superior quality glass (Modi /Sant Gobain) complete with 6 mm thick hard board fixed to wooden cleats with cp brass screws and washers etc complete. (17.31-AR508)	8.00	0.00	0.00	8.00	Sqm		
60	Providing and fixing health faucet hardware or parryware make as per direction of EIC (Based on MR)	3.00	0.00	0.00	3.00	EACH		
61	Providing and fixing C.P. brass angle valve for basin mixer and gysler points of approved quality conforming to IS:8931 a) 15 mm nominal bore : 15 mm nominal bore (18.53.1-AR423)	3.00	0.00	0.00	3.00	EACH		
62	Providing and fixing unplasticised PVC connection pipe with brass unions: 45 cm length, 15 mm NB, (18.21.2.1-AR390)	3.00	0.00	0.00	3.00	EACH		
63	Providing and fixing C.P. brass long body bib cock hardware/parryware conforming to IS standards and weighing not less than 690 gms: 15 mm nominal bore. (18.51.1-AR421)	3.00	0.00	0.00	3.00	EACH		
64	Point wiring in PVC conduit, with modular type switch : Wiring for light point / fan point / exhaust fan point / call bell point with 1.5 sq.mm FR PVC insulated copper conductor single core cable in surface / recessed PVC conduit, with modular switch, modular plate, suitable G.I. box and earthing the point with 1.5 sq.mm. FR PVC insulated copper conductor single core cable etc as required. Group B	3.00	0.00	0.00	3.00	PNT		

S.No.	Description	Quantities				Unit	Rate (In Rs.) e/x GST	Amount (In Rs.) e/x GST
		PART A	PART B	PART C	Total Quantities			
65	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.15/16 A switch (DSR-1.24.3)	3.00	0.00	0.00	3.00	EACH		
66	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.6 pin 15/16 A socket outlet Each (DSR-1.24.5)	20.00	0.00	0.00	20.00	EACH		
67	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required. 5/6 amps switch (AR582)	20.00	0.00	0.00	20.00	EACH		
68	"P/F URINAL PARTITIONS 3/4"" THK GRANITE 600 MMX1350 MM OF APPD DESIG AND SHADE INCLUDING FIXING IN THE WALLS AS REQUIRED BY CHASING & MAKING GOOD THE WALLS WHEREVER REQUIRED ALSO PROVIDING EDGE MOULDING TO THE GRANITE PARTITION COMPLETE JOB AS PER INSTRUCTION OF EIC.	5.00	0.00	0.00	5.00	SQM		
69	Providing and fixing square-mouth S.W. gully trap class SP-1complete with C.I. grating brick masonry chamber with 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 : 100x100mm size P type with common burnt clay F.P.S (non modular) bricks of class designation 75 (19.4.1.1-AR446)	5.00	0.00	0.00	5.00	EACH		
70	12 mm cement plaster of mix: 1:4 (1 cement : 4 coarse sand)	5.00	0.00	0.00	5.00	SQM		
71	15 mm cement plaster on rough side of single or half brick wall of mix 1:4 (1 cement : 4 coarse sand)	414.00	250.00	875.00	1539.00	SQM		
72	6 mm cement plaster of mix : 1:3 (1 cement: 3 fine sand)	514.00	180.00	798.00	1492.00	SQM		
73	Neat cement punning	490.00	120.00	535.00	1145.00	SQM		
74	Extra for providing and mixing water proofing material in cement plaster work in proportion recommended by the manufacturers.(Per Bag of 50 KG cement used in the mix)	210.00	220.00	205.00	635.00	EACH		
75	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	40.00	20.00	40.00	100.00	SQM		
76	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface : Water thinnable cement primer	564.00	115.00	1985.00	2664.00	SQM		
77	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)	564.00	2400.00	2135.00	5099.00	SQM		
78	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade :Two or more coats on new work	20.00	115.00	75.00	210.00	SQM		
79	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade. Two or more coats on new work.	564.00	150.00	150.00	864.00	SQM		
80	Washed stone grit plaster on exterior walls of height upto 10 metre above ground level, in two layers, under layer 12mm cement plaster 1:4 (1cement: 4 coarse sand), furrowing the under layer with scratching tool, applying cement slurry on the under layer @ 2 Kg of cement per square metre, top layer 15mm cement plaster 1:1/2:2 (1 cement: 1/2 coarse sand :2 stone chipping 10mm nominal size), in panels with groove all around as per approved pattern, including scrubbing and washing the top layer with brushes and water to expose the stone chippings, complete as per specification and direction of Engineer-in- charge (Payment for providing grooves shall be made separately).	10.00	302.00	455.00	767.00	SQM		
81	Forming groove of uniform size from 12x12mm and upto 25x15mm in the top layer of washed stone grit plastered surface as per approved pattern, including providing and fixing aluminum channels of appropriate size and thickness (not less than 2 mm), nailed to the under layer with rust proof screws and nails and finishing the groove complete as per specifications and direction of the Engineer-in-Charge.	308.00	430.00	935.00	1673.00	M		
82	Extra for using Silver cement in place of ordinary cement in the top layer of the item of washed stone grit plaster.	676.00	0.00	0.00	676.00	SQM		
83	Extra for providing & mixing the dark shade pigment in top layer of washed stone grit plaster. (AR-55)	308.00	430.00	935.00	1673.00	SQM		
84	Extra for using marble chips of size 7 to 10 mm nominal size in place of stone chipping 10 mm nominal size in Washed stone grit plaster on exterior walls (AR158)	308.00	430.00	935.00	1673.00	SQM		

S.No.	Description	Quantities				Unit	Rate (In Rs.) e/x GST	Amount (In Rs.) e/x GST
		PART A	PART B	PART C	Total Quantities			
85	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.	308.00	0.00	0.00	308.00	SQM		
86	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	20.00	115.00	75.00	210.00	CUM		
87	Supplying and stacking at site. Good earth	54.00	518.00	940.00	1512.00	CUM		
88	Providing and erecting 2.00 metre high temporary barricading at site; each panel of size 2.50mx2.00m made of 40x40x6mm angle iron or 50x50x3mm hollow MS tube posts/horizontal members/bracings covered with 1.63mm thick MS sheet. The sheet shall be fixed with 30x5mm MS flat by suitable welding/ riveting. The panels shall be made so that gap of 50cm above the ground is available making overall height as 2.5m. MS channel ISLC 75 @ 5.70 kg/m, 50cm long shall be provided at the bottom having oval shaped holes of size 50x25mm at both ends with 50cm long MS angle 40x40x6mm bracing. Suitable arrangement shall be made to fix the barricading to avoid from overturning by providing 250mm long expansion fasteners at both ends. The work shall be executed as per drawing/direction of Engineer-in-Charge which includes writing and painting, arrangement for traffic diversion such as traffic signals during construction at site for day and night, glow lamps, reflective signs, marking, flags, caution tape as directed by the Engineer-in-Charge. The barricading provided shall be retained in position at site continuously i/c shifting of barricading from one location to another location as many times as required during the execution of the entire work till its completion. Rate include its maintenance for damages, painting, all incidentals, labour materials, equipments and works required to execute the job. The barricading shall not be removed without prior approval of Engineer in-Charge.(Note :- One time payment shall be made for providing barricading from start of work till completion of work i/c shifting. The barricading provided shall remain to be the property of the contractor on completion of the work).	94.00	0.00	0.00	94.00	M		
89	Taking out existing CC interlocking paver blocks from footpath/ central verge, including removal of rubbish etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-Charge.	64.00	0.00	0.00	64.00	SQM		
90	Providing and laying factory made chamfered edge Cement Concrete paver blocks in footpath, parks, lawns, drive ways or light traffic parking etc, of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of sand, compacting and proper embedding/laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand. complete all as per direction of Engineer-in-Charge. 60mm thick cement concrete paver block of M-35 grade with approved colour, design & pattern.	110.00	0.00	0.00	110.00	SQM		
91	Supply , installation Heavy duty factory made Precast RCC trench cover (KK make) factory made 50 mm thik of various size upto 1500 mm length , 300 mm wide with TMT steel reinforcement bar of 10mm dia 4nos along length and 8 mm dia c/c spacing of 150mm & two no GI hooks for lifting , minimum grade of concrete M-35 grade trench cover shall have both KK & BYPL logo.	15.00	0.00	0.00	15.00	SQM		

S.No.	Description	Quantities				Unit	Rate (In Rs.) e/x GST	Amount (In Rs.) e/x GST
		PART A	PART B	PART C	Total Quantities			
92	<p>Polyurethane waterproofing by Dr.Fixit Flexi PU 270(I) . Removing & chipping off of existing loose plaster. Clean the surface from contaminants with brush. Remove any sharp protrusion on the blinding layer by chipping and local repairs.</p> <p>Surface Preparation: All surfaces which are to receive the coating must be free from oil, laitance, grease, wax, dirt or any other form of foreign matter which might affect adhesion. Cut back any protrusions. Typically concrete surfaces can be cleaned using high pressure water jet or by proper wire brushing/ grinder.All cracks, construction joints,honey combed/damaged surface to be repair with PMM and cracks to be chase out by cutting 25mm x 25mm "V" shape groove all along the crack, cleaning cracks and sealing it using Mesto Grout HS , curing etc., all complete as per the manufactureres specification and direction of engineer-in-charge.</p> <p>L Shape, Augular Fillet: Providing 50 mm X 50 mm angle fillets on the vertical up- stands, parapet wall junction corners, service units and properly dressed by preparing polymer modified mortar with Pidicrete URP or equivalent in the ratio of 1:3 by adding polymer 10% by weight of the cement, add little water, until the required consistency is achieved.</p> <p>Injection Grouting: Providing and applying injection grouting treatment by chemical injection grout process at construction joints, wall joints, honey comb areas etc. in concrete surface or the area using nozzles of min 25-50mm deep in slabs along with construction joints consisting of injection cement slurries of different viscosities under pressure by pump using injection grout waterproofing chemical (Pidicrete AM) mixed with neat cement slurry and sealing off nozzles after the injection operation.</p> <p>Screeding: Providing and laying of average 75mm thick (or suitable thickness for necessary slope) concrete screed of minimum M 20 grade concrete.</p> <p>PU Waterproofing Coating: Supplying and applying, Dr.Fixit Flexi PU 270(I) highly flexible is a liquid applied, highly permanent elastic cold</p>	10.00	0.00	38.00	48.00	SQM		
93	<p>Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C., kitchen and the like as required as per direction of the Engineer-in-charge, consisting of :</p> <p>(i) 1st course of applying cement slurry @ 4.4 kg/sqm mixed with water proofing compound conforming to IS 2645 in recommended proportions including rounding off junction of vertical and horizontal surface.</p> <p>(ii) 2nd course of 20 mm cement plaster 1:3 (1 cement : 3 fine sand) mixed with water proofing compound in recommended proportion including rounding off junction of vertical and horizontal surface.</p> <p>(iii) 3rd course of applying blown or residual bitumen applied hot at 1.7 kg. per sqm of area.</p> <p>(iv) 4th 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).</p>	210.00	0.00	675.00	885.00	SQM		
94	<p>Supply & Installation of 46mm thick Metal fire check door of 120 minutes' fire rating confirming to BS: 476 Part 22 and IS: 3614 Part II fabricated with 2 nos. 1.2mm thick galvanized sheet with infill of fire rated Acrylic Sealant and non-combustible core bonded to both faces of sheet with lock seam joints at stile edges and internal reinforcement at top, bottom and stile edges for Fire Rating. The door frames are manufactured from 1.6mm thick galvanized steel sheet pressed form to double rebate profile of size 143mm x 57mm duly filled with vermiculite based concrete mix. The door frames and door shutters are finished with powder coated Smoke grey finish.(as per approved shade)</p>	9.00	0.00	0.00	9.00	SQM		

S.No.	Description	Quantities				Unit	Rate (In Rs.) e/x GST	Amount (In Rs.) e/x GST
		PART A	PART B	PART C	Total Quantities			
95	Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid decorative type 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/mm2, modulus of elasticity 850 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. WPC to be laminated with PVC foil of minimum 14 microns thick of approved design pasted with hot melt adhesive on both faces of shutter and fixing with stainless steel butt hinges of required size with necessary full body threaded star headed counter sunk S.S screws, all as per direction of Engineer-In- Charge. (Note: stainless steel butt hinges and necessary S.S screws shall be paid separately) 30 mm thick	16.00	0.00	0.00	16.00	SQM		
96	Providing and fixing pressed steel door frames conforming to IS: 4351, manufactured from commercial mild steel sheet of 1.60 mm thickness, including hinges, jamb, lock jamb, bead and if required angle threshold of mild steel angle of section 50x25 mm, or base ties of 1.60 mm, pressed mild steel welded or rigidly fixed together by mechanical means, including M.S. pressed butt hinges 2.5 mm thick with mortar guards, lock strike-plate and shock absorbers as specified and applying a coat of approved steel primer after pre-treatment of the surface as directed by Engineer-in-charge: Fixing with adjustable lugs with split end tail to each jamb.	28.50	0.00	0.00	28.50	M		
97	Providing and fixing M.S. Tubular frames for doors, windows, ventilators and cupboard with rectangular/ L-Type sections, made of 1.60 mm thick M.S. Sheet, joints mitred, welded and grinded finish, with profiles of required size, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer.	66.20	0.00	0.00	66.20			
98	Fixing with 15x3 mm lugs 10 cm. long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size).	40.00	0.00	0.00	40.00	Kg		
99	Fastener:- Supply of Fasteners 10 X 80 mm (08 Nos for Each Door) Hilti make	56.00	0.00	0.00	56.00	EACH		
100	Hinges:- Supply of SS Ball Bearing Hinges of Size 102 X 76 X 3mm Complete With Ss Screws of DORMA (Model No : 3090F) Make	28.00	0.00	0.00	28.00	EACH		
101	Vision Panel:- Supply of 6 MM Thick Clear Glass - Schott- Pyran Make- (200 X 300mm)	8.00	0.00	0.00	8.00	EACH		
102	Door Closer:-Supply of DORMA (Model No. TS - 78) Make Door Closer	6.00	0.00	0.00	6.00	EACH		
103	SS D Handle :- Supply of 450 mm Long / 25 mm Dia / SS 304, Finish : Satin of DORMA (Model No. TGDIH) Make	8.00	0.00	0.00	8.00	Pair		
104	Panic Bar S/L :-Supply of DORMA (Model No. PHCR 1000) Make Single Leaf Panic Bar Single Point, Silver Finish	6.00	0.00	0.00	6.00	EACH		
105	Panic Trim:- Supply of DORMA (Model No. PHCR 2905) Make Panic Trim with Latch Handle	6.00	0.00	0.00	6.00	EACH		

S.No.	Description	Quantities				Unit	Rate (In Rs.) e/x GST	Amount (In Rs.) e/x GST
		PART A	PART B	PART C	Total Quantities			
106	WINDOW, TYPE:GALVANIZED IRON STEEL PRE PAINTED; MATERIAL:GALVANIZED IRON STEEL PRE PAINTED;; WITH GLASS OF 5MM THICKNESS; MODEL: ECO 3000SERIES; MAKE: NCL; DIMENSION AS PER SITE CONDITION; SPECIAL FEATURES: OPENABLE;Providing and fixing Eco 3000 Series Windows fabricated from roll formed sections made of Galvanized Steel Colour Coated/Powder Coated (Base Steel as per IS 513 "D" quality, Galvanized as per IS 277 with Zinc of 120 grams/Sq. Mtr.) with total coated thickness of 0.60 mm. Coated Sections should be with Primer Coat of Epoxy Primer of 5-7 microns thick, finish painted with Polyester Paint of 12-16 microns thick and back coated with Alkyd backer of 5-7 microns, or Powder Coated with pure Polyester Powder up to 50-60 microns thick.Section for frame should be 48mm x 50mm, Section for Mullion should be of 48mm x 50mm, Section for Glazed Shutter Frame should be of 47mm x 20mm, and Section for Fixed Glass Bead should be of 12mm x 12mm.Frame and Shutter Frame Sections should be cut to length and metre joined with Polypropylene Corner Brackets. Mullion Section should be joined with Frame/Mullion using Nylon Mullion Cap. Ethyl Propylene Diamine Monomer (EPDM) Gasket should be used all around glass in shutter.Each Glazed Shutter should be provided with S.S. Pivot Hinges-1set, Seccolor Handle & Seccolor Stay.Window Frame should be fixed to brick/concrete masonry by using Nylon self expanding caps and driving MS electroplated 80mm long screws into the caps through frames. (after fixing the windows, gap shall be filledup by sellicon sealant).Glass shutter & Fixed Glass portions should be provided with a glass of 5MM Plain Float Glass.Windows should be provided with Grill made of 10mm sq. MS Bars welded to at 150mm center-to-center, 6mm x 12mm MS flat. Total grill unit should be powder coated and fixed to window frame with screws.	10.00	0.00	18.00	28.00	SQM		
107	WINDOW, TYPE:GALVANIZED IRON STEEL PRE PAINTED; MATERIAL:GALVANIZED IRON STEEL PRE PAINTED;; WITH GLASS OF 5MM THICKNESS; MODEL: ECO 3000SERIES; MAKE: NCL; DIMENSION AS PER SITE CONDITION; SPECIAL FEATURES: FIXED;Providing and fixing Eco 3000 Series Windows fabricated from roll formed sections made of Galvanized Steel Colour Coated/Powder Coated (Base Steel as per IS 513 "D" quality, Galvanized as per IS 277 with Zinc of 120 grams/Sq. Mtr.) with total coated thickness of 0.60 mm. Coated Sections should be with Primer Coat of Epoxy Primer of 5-7 microns thick, finish painted with Polyester Paint of 12-16 microns thick and back coated with Alkyd backer of 5-7 microns, or Powder Coated with pure Polyester Powder up to 50-60 microns thick.Section for frame should be 48mm x 50mm, Section for Mullion should be of 48mm x 50mm, Section for Glazed Shutter Frame should be of 47mm x 20mm, and Section for Fixed Glass Bead should be of 12mm x 12mm.Frame and Shutter Frame Sections should be cut to length and metre joined with Polypropylene Corner Brackets. Mullion Section should be joined with Frame/Mullion using Nylon Mullion Cap. Ethyl Propylene Diamine Monomer (EPDM) Gasket should be used all around glass in shutter.Each Glazed Shutter should be provided with S.S. Pivot Hinges-1set, Seccolor Handle & Seccolor Stay.Window Frame should be fixed to brick/concrete masonry by using Nylon self expanding caps and driving MS electroplated 80mm long screws into the caps through frames. (after fixing the windows, gap shall be filledup by sellicon sealant).Glass shutter & Fixed Glass portions should be provided with a glass of 5MM Plain Float Glass.Windows should be provided with Grill made of 10mm sq. MS Bars welded to at 150mm center-to-center, 6mm x 12mm MS flat. Total grill unit should be powder coated and fixed to window frame with screws.	6.00	0.00	0.00	6.00	SQM		

S.No.	Description	Quantities				Unit	Rate (In Rs.) e/x GST	Amount (In Rs.) e/x GST
		PART A	PART B	PART C	Total Quantities			
108	Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37 mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50 mm long with 6 mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre,	95.40	0.00	0.00	95.40	SQM		
109	Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound , jointing tapes , finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with :12.5 mm thick tapered edge gypsum plain boardconforming to IS: 2095- (Part I) :2011 (Board with BIScertification marks)	47.70	0.00	0.00	47.70	SQM		
110	FALSE CEILING IN ARMSTRONG FINE FISSURED BUTT EDGE TILES 595X595MM : PROVIDING & FIXING OF ARMSTRONG FINE FISSURED BUTT EDGE TILE CEILING "COMPLETE IN ALL RESPECTS USING ARMSTRONG CHANNELS,HANGERS ETC. ITEM ""COMPLETE WITH ALL EDGE CUT TILES AND REQUIRED CUTTING FOR LIGHTS, " "SPEAKERS, DETECTORS, DIFFURES, ETC.TILE CODE-ARMSTRONG FINE FISSURED NF BUTT EDGE (AR230) Make - GYPROC.	23.85	0.00	0.00	23.85	SQM		
111	S/F PVC conduit : Supplying and fixing of following sizes of PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required. 25mm (AR572)	200.00	25.00	25.00	250.00	M		
112	Circuit / sub-main wiring in PVC conduit : Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of PVC insulated copper conductor, single core cable in surface/ recessed PVC conduit as required-2 X 4 sq. mm + 1 X 4 sq. mm earth wire.	150.00	65.00	120.00	335.00	M		
113	Circuit/sub-main wiring in PVC conduit : Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of PVC insulated copper conductor, single core cable in surface/ recessed PVC conduit as required-2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	250.00	35.00	60.00	345.00	M		
114	Circuit/sub-main wiring in PVC conduit : Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of PVC insulated copper conductor, single core cable in surface/ recessed PVC conduit as required-2 X 6 sq. mm + 1 X 6 sq. mm earth wire	150.00	22.00	60.00	232.00	M		

S.No.	Description	Quantities				Unit	Rate (In Rs.) e/x GST	Amount (In Rs.) e/x GST
		PART A	PART B	PART C	Total Quantities			
115	Point wiring in PVC conduit, with modular type switch : Wiring for light point / fan point / exhaust fan point / call bell point with 1.5 sq.mm FR PVC insulated copper conductor single core cable in surface / recessed PVC conduit, with modular switch, modular plate, suitable G.I. box and earthing the point with 1.5 sq.mm. FR PVC insulated copper conductor single core cable etc as required. Group C (AR559)	56.00	24.00	42.00	122.00	EACH		
116	P/F/T/C 6/16A 5 pin modular socket controlled by 16 A switch.(complete set modular). (AR693)	44.00	8.00	16.00	68.00	EACH		
117	Providing, Fixing, Testing & Commissioning Of 3nos 6A 5pin socket & 1no 6A switch in 5 module plate. (AR760)	28.00	5.00	8.00	41.00	EACH		
118	S / F light plug point modular type accessories : Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection. painting etc. as required. (For light plugs to be used in non residential buildings). (AR593)	18.00	16.00	20.00	54.00	EACH		
119	S / F power plug point modular type accessories : Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and .fixing 6 pin 15 / 16 & 5 / 6 amps modular socket outlet and 15 / 1 6 amps modular switch, connection, painting etc. as required. (AR594)	22.00	12.00	14.00	48.00	EACH		
120	Providing and fixing circular/hexagonal m.s. sheet ceiling fan box "with clamp of internal dia 140 mm, 73 mm height, 3 mm thick rim, " top and bottom lid of 1.5 mm m.s. sheet. lids shall be screwed into "m.s. box by means of 3 mm round headed screws, clamps shall be made "of 12 mm dia ms bar bend to shape as per std. drawing with overall length as 80 cm.	18.00	0.00	0.00	18.00	EACH		
121	Supplying and fixing following rating, four pole, 415 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required. 63 Amps. (AR617)	8.00	4.00	4.00	16.00	EACH		
122	S / F 'C' series. SP MCB : Supplying and fixing 5 amps to 32 amps rating, 240 volts. 'C' series, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. : Single pole (AR787)"	16.00	15.00	8.00	39.00	EACH		
123	S/F SP MCB DB consumer unit : Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board consumer unit, 240 volts. on surface/ recess, complete with tinned copper busbar, neutral busbar, earth bar, din bar, hinged front acrylic cover for the MCB knobs, detachable gland plate, interconnections, phosphatized and powder painted including earthing etc. as required. (But without MCB / RCCB / Isolator) : 2 + 8 way (AR785)	2.00	0.00	2.00	4.00	EACH		
124	Providing and fixing of LED Tubelight of 40Watt as per direction of EIC	18.00	18.00	20.00	56.00	EACH		
125	Providing and fixing Industrial type Axial Exhaust fan of propeller type / axial type shall be provided for rooms with suitable drive motor, DOL starter, rain protection cowl with screen, grouting bolts etc. Fan for battery room shall be bifurcated type spark proof construction as per direction of Engineer incharge sweep of 600mm .(Make-Crompton).	2.00	0.00	0.00	2.00	EACH		
126	Providing and fixing ceiling Fan 1400 mm of approved make.	6.00	0.00	0.00	6.00	EACH		
127	Demolition and disposal from site as per MCD/DPCC norms of existing building (boundary wall if applicable)RCC work ,Brick work ,Steel work ,Door & windows ,Flooring ,False ceiling ,Grade slab , plinth protection electrical fitting ,Plumbing, foundation , boundary wall (if applicable) or any other items not mentioned above and taking out all material and giving recovery rate on sq feet basis of covered area.	362.38	0.00	0.00	362.38	Sqm		
128	LUM,LED,CEILING;36W;140-270V;600X600MM P/F/T/C LUMINAIRE,LED,TYPE:CEILING;POWER:36 W;VOLTAGE:140-270 V:LAMP SIZE:600X600 MM;MOUNTING:RECESSED;INGRESS PROTECTION:IP 20; MAKE:CROMPTON;MODEL:LCTLRN 36 FO CDL;ADDITIONAL INFORMATION:LED 36 W EFFICIENCY 85 PERCENT SURGE PROTECTION UP TO 2.5 KV: SYSKA / HAVELLS OR EQUIVALENT	10.00	0.00	0.00	10.00	NOS		
129	P/F Focus light 7 wt of syska or equivalent make	10.00	0.00	0.00	10.00	NOS		

S.No.	Description	Quantities				Unit	Rate (In Rs.) e/x GST	Amount (In Rs.) e/x GST
		PART A	PART B	PART C	Total Quantities			
130	Providing and fixing JSW/ Bluescope pre coated galvanized rib & flute design profile sheets (size, shape and pitch of corrugation as approved by Engineer in-charge) 0.50 mm (+0.05%) total coated thickness with Aluminium zinc coating 150 grams per sqm on both sides (AZ 150 as per AS 1397 - 1993), in minimum 300 mpa yield strength with super durable polyester colourboard XRW of approved color. Total coating thickness of 35 microns, comprising of 20 mm microns exterior coat on top surface and 5 micron reverse on back surface over 5 micron epoxy primer coats on both surface includin* side and laps of approved color and shade as per EIC. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length up to 12 meters 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 up to any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting toR size and shape wherever required. The sheets shall have brand make marking of manufacturer giving product details on the back of sheet at every regular interval for conforming genuinely of material. (Based on 12.50-A187)"	300	0.00	25.00	325.00	SQm		
131	Provide and install sacrificial zinc anodes Fosroc Galvashield XPI, to prevent the initiation of corrosion in steel reinforcement within chloride-contaminated or carbonated concrete, or in new construction. Each anode unit must contain a minimum of 60 grams of zinc, compliant with ASTM B418-95a, Type I, die-cast around steel tie wires, ensuring proper separation if multiple tie wires are used. The anodes must be encapsulated in a highly alkaline cementitious mortar with a pH of 14 or higher, free from sulfates, chlorides, bromides, or any other corrosive elements to steel. The encapsulating mortar should feature an interconnected and fine pore structure to dissolve, transport, and accommodate zinc corrosion products away from the anode surface without causing additional stress to the concrete cover, maintaining a pH > 14 near the uncorroded zinc for the specified service life. Anode units shall be supplied with integral, well-separated tie wires (without splices if multiple wires are used) and loop ties for direct attachment to the reinforcing steel. Anodes should be covered with a bed mortar with resistivity less than 50 kOhm-cm or similar to the parent concrete on cleaned steel reinforcement before applying passivation coating. The scope includes supply, installation, spacing calculations, quality assurance procedures, and must adhere to manufacturer specifications. Approved brand shall be M/s Fosroc Galvashield Anodes/Vector Galvashield/IPSS	294	14.00	55.00	363.00	Nos		
132	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of engineer in charge. Nominal concrete: 1:3:6 or richer mix (i/c equivalent design mix)	0	117.00	128.00	245.00	CUM		
133	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge.	0	81.00	84.00	165.00	CUM		
134	Demolishing brick work manually /by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-In-charge.: In cement mortar	0	83.00	100.00	183.00	CUM		
135	Dismantling steel work in built up sections in angles, tees, flats and channels including all gusset plates, bolts, nuts, cutting rivets, welding etc. including dismembering and stacking within 50 m lead.	0	250.00	850.00	1100.00	KG		
136	Dismantling old plaster or skirting, raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	0	649.00	2410.00	3059.00	SQM		
137	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead:For thickness of tiles 10 mm to 25 mm	0	22.00	35.00	57.00	SQM		
138	Demolishing mud phaska in terracing and disposal of material within 50 metres lead (15.27-AR282)	0	88.00	90.00	178.00	CUM		
139	Extra for cutting reinforcement bars manually/ by mechanical means in R.C.C. or R.B. work (Payment shall be made on the cross sectional area of R.C.C. or R.B. work) as per direction of Engineer in-charge.	0	13.00	18.00	31.00	SQM		

S.No.	Description	Quantities				Unit	Rate (In Rs.) e/x GST	Amount (In Rs.) e/x GST
		PART A	PART B	PART C	Total Quantities			
140	Supplying and spreading uniformly in yard of grid s/stn. blue stone aggregate 20 mm single size of good quality i/c loading, unloading for all leads & lifts complete, as per direction of Engineer in charge.	0.00	12.00	250.00	262.00	CUM		
141	Removing dry or oil bound distemper water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	0.00	2200.00	400.00	2600.00	SQM		
142	Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade. New work (two or more coats) over and including water thinnable priming coat with cement primer	0.00	2100.00	1985.00	4085.00	SQM		
143	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	0.00	33.00	35.00	68.00	SQM		
144	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), Jointing with grey cement slurry @ 3.3 kg/sqm including pointing the joints with white cement and matching pigment etc., complete.	0.00	11.00	6.00	17.00	SQM		
145	Forming groove of uniform size in the top layer of washed stone grit plaster as per approved pattern using wooden battens, nailed to the under layer including removal of wooden battens, repair to the edges of panels and finishing the groove complete as per specification and direction of the Engineer-In-Charge. 15 mm wide and 15 mm deep groove (13.73.1-AR225)	0.00	1180.00	0.00	1180.00	M		
146	Providing and fixing T-iron frames for doors, windows and ventilators of mild steel Tee-sections, joints mitred and welded, welded, including fixing of necessary butt hinges and screw and applying a priming coat of approved steel primer. Fixing with 15x3 mm lugs 10cm long embedded in cement concrete blocks 15x10x10 cm of 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size. (10.13-AR132)	0.00	150.00	350.00	500.00	KG		
147	Providing/fixing by welding (IRC fabric) welded mesh of size 25x75 mm of weight not less than 7.75 kg/ sqm to the frame of MS angles, tees, etc. including priming coat of approved brand. (AR85)	0.00	260.00	350.00	610.00	KG		
148	Providing and fixing by welding 65 mm size M.S. Hinges made out of 5mm thick M.S. sheet i/c nuts, bolts etc. complete to M.S. angles/channels as approved by Engineer-In-Charge . The cost is inclusive of material, cartage, welding etc. complete job.(AR489)	0.00	36.00	120.00	156.00	EACH		
149	Providing and fixing M.S. Sheet of required thickness to M.S frames by welding. (The cost includes the cost of M.S. sheet, cutting, straightening, labour, cartage, welding rods, hire charges of welding machine etc. complete) as per direction of Engineer-In-Charge. (AR87)	0.00	320.00	2150.00	2470.00	KG		
150	Removing of damaged / broken / twisted IRC welded mesh fencing panels repairing of damaged / broken members , replacing new members if required, setting right the fencing panel in proper shape and size as per site requirement, re-fixing of panel at old location / new location in proper position and required alignment, Rate includes the cost of all labour , T & P , welding rods, welding machine, etc complete. The cost of structural steel and nut bolts, washers, IRC welded Mesh etc., if required will be paid separately.	0.00	60.00	50.00	110.00	SQM		
151	Providing and fixing roofing consist of 0.8 mm thick galvanized steel deck sheet conforming to IS 277:1992 used as permanent shuttering over which MS wire mesh 3mm laid at 100x100 mm grid including edge trim covered with concrete. This metal deck will be supported on structural steel beam with shear studs. (Structural steel like Beam,column, joists etc. & concrete of different grade as per design will be paid separately)	0.00	132.00	750.00	882.00	SQM		

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		PART A	PART B	PART C	Total Quantities			
152	Providing and fixing double scaffolding system (cup lock type) on the exterior side of building/ structure, upto 25 metre height, above ground level including additional rows of scaffolding in stepped manner as per requirement of site, made with 40mm dia. M.S. tube 1.5 m centre to centre horizontal & vertical tubes joining with cup & lock system with M.S. tubes, M.S. tube chalis, M.S. clamps and staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for execution of work of cleaning and / or pointing and/ or applying chemical and removing it thereafter. The scaffolding system shall be stiffened with bracings, runners, connection with the building etc, wherever required, if feasible, for inspection of work at required locations with essential safety features for the workmen etc. complete as per directions and approval of Engineer-in-charge .The elevational area of the scaffolding shall be measured for payment purpose .The payment will be made once only for execution of all items for such works.	0.00	35.00	300.00	335.00	SQM		
153	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. Semi rigid pipe 32 mm dia (17.28.1.1-AR320)	0.00	4.00	0.00	4.00	EACH		
154	Providing and fixing 60 cm long PVC rain water spout in proper line and level in cement mortar 1:4 (1 cement : 4 fine sand) in the existing khurra level, dismantling wall/ pipe and making hole of required size for fixing of pipe, filling CC 1:3:6 (1cement :3 coarse sand : 6 graded stone aggregate 20mm nominal size) between wall and pipe, plastering both sides of walls with cement mortar 1:4 (1 cement :4 fine sand)and making the pipe joint leak proof.	0.00	2.00	0.00	2.00	EACH		
155	Providing and fixing unplastised- PVC pipe clips of approved design to unplastised- PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length including cutting brick work and fixing in cement mortar 1:4 (1cement : 4 coarse sand) and making good the wall etc. complete. 110 mm (12.43.2-AR184)	0.00	64.00	98.00	162.00	EACH		
156	Chipping of Unsound Concrete :Cleaning the concrete surface by removing dirt and debris, marking defective locations and Chipping/removing of loose/Unsound/weak concrete from slabs beams , columns etc by careful stripping untill hard surface is exposed, cutting the concrete to regular shape, wire brushing the exposed surface and removing debris from site complete as per direction of the Engineer - in - Charge. Upto 75mm average. Protective coating: Applying two coats of surface applied Bipolar Corrosion inhibitor FAIRCRETE C SURFACE APPLIED or equivalent as per manufacturer's specification and direction of the Engineer	0.00	62.00	190.00	252.00	SQM		
157	Providing and applying Reebaklens RR, a combination of acid based material, corrosion inhibitors and dispersing agents rust remover, for removal of all rust/ scales/corrosion from reinforcement bars before microconcreting or patch repair, having Specific Gravity 1.16-1.22. Reebaklens RR Shall be applied with brush for complete wetting of rusted metal surface at coverage of 2-2.5 Sqm/ltr. & allow it to react for 16-24 hours. After 24 hours, a white layer will appear which will protect further corrosion of metal /steel for about 5-7 days. Before applying any protective coating, the surface should be wire brushed and thoroughly cleaned for dust with dry cloth.	0.00	24.00	92.00	116.00	SQM		
158	Providing and applying Nitozinc Primer an epoxy based zinc rich anti corrosive primer having adhesive bond strength ≥ 1.5 MPa as per ASTM D4541, & shall comply to per ASTM B-117 to be applied on well cleaned, fully exposed and all loose scale , rust free rust free surface obtained by grit blasting or suitable means , to be done with coverage @4.5sqm/litres to achieve a minimum thickness of 40microns DFT or as per direction of Engineer-In charge.	0.00	24.00	92.00	116.00	SQM		

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		PART A	PART B	PART C	Total Quantities			
159	Providing and applying Renderoc SP40 shrinkage compensated fiber reinforced polymer modified wet spray repair mortar on the prepared surface and curing with curing compound. The repair mortar used shall be single component and shall be mixed with water at water powder ratio of 0.18 and shall have drying shrinkage < 1000 microstrain as per ASTM C 157-93; compressive strength > 40 MPa ; Flexural Strength > 7 Mpa as per ASTM C 348, bond strength > 6 MPa as per ASTM C 1042, etc complete. Product used shall have CE (CE-29842) marking and compliance according to Construction Products Directive 89/106/EEC (CPD). Cost of curing compound shall be paid separately. Thickness 25mm. [Polymer Modified Mortar for Surface Repair (Lesser thickness & Larger surface area- Wet spray mortar)]	0.00	52.00	150.00	202.00	SQM		
160	Providing and applying Concure 1315, a acrylic polymer based non-degrading single component having solid content 33% to be applied over the freshly casted concrete members. The coating shall be applied using brush/roller/roller @ consumption of 200ml/coat/sqm. The coating shall comply to ASTM C1315 Type 2, & shall have moisture retention < 0.4 kg/m ² as per ASTM C156, Adhesion of tile cement : >0.5 N/mm ² .[Curing Compound]	0.00	52.00	725.00	777.00	SQM		
161	Providing & Laying glass fiber cloth of approved quality all complete as per direction of engineer incharge.	0.00	500.00	675.00	1175.00	SQM		
162	Providing and fixing factory made Fiberglass Reinforced plastics (F.R.P.) chajja 4 mm thick of required colour, size and design made by Resin Transfer Moulding (RTM) Machine Technology, resulting in void free compact laminate in single piece, having smooth gradual slope curvature for easy drainage of water and duly reinforced by 2 nos vertically and 1 nos horizontally 50x2 mm thick M.S. flat with 12 mm in built hole for grouting on the existing wall along with the 50 mm flanges duly inserted and sealed in the wall complete in one single piece casted monolithically, including all necessary fittings . The FRP Chajja should be manufactured using unsaturated Polyester resin as per IS: 6746, duly reinforced with fibre glass chopped strand mat (CSM) as per IS: 11551 complete with protective Gel coat U/V coating on Top for complete resistance from the extreme of temperature, weather & sunlight. Note - Only plan area of chajjas shall be measured for making payment]	0.00	3.00	0.00	3.00	SQM		
163	NRV Nozzles Installation: Drill and fix NRV nozzles in RC members, including (fixing material: Renderoc Plug of Fosroc / Sikadur-31 of Sika/ MasterBrace 2200 of BASF or equivalent of Pidilite& Krishna Conchem). Drilling Holes: Drilling 12 mm dia, 50 to 75 mm deep holes or upto required depth in structural members of the intervals of 350 mm in staggered manner or as directed by the Engineer-in-charge in RC structural elements. Cleaning of holes: Clean the holes by air blower prior to fixing nozzles. Fixing of Nozzles: Insert 12mm dia. NRV nozzles in cleaned holes. External end of nozzles to be machine to receive outlet of grouting gun. Fix it inside the holes by applying thyratrophic epoxy putty to ensure complete sealing. Cure the system for min. 12 hrs. Cutting of Nozzles: Cut the nozzles by chisel after completion of grouting without damaging structural elements.	0.00	775.00	680.00	1455.00	Nos		
164	Pressure Grouting with Epoxy Resin: Perform pressure grouting using Conbextra EP10, a low viscous solvent-free two-component epoxy resin with a density of 1050 kg/m ³ . Ensure the epoxy resin has viscosity < 0.6 poise (ASTM D1200), compressive strength > 80 MPa (ASTM D 695), and bond strength > 4 MPa (ASTM C882). Use products with CE marking and compliance according to Construction Products Directive 89/106/EEC. Mix epoxy resin components in required quantities as per manufacturer's instructions. Fill the grouting gun with epoxy resin and maintain desired pressure using an air compressor. Grout the material through prefixed nozzles in structural elements until refusal, sealing the nozzles with epoxy putty afterward. Monitor and seal leakages through other nozzles as required. Complete the operation within the pot life of the material. Clean the grouting gun and accessories with thinner after the operation to prevent jamming.	0.00	88.00	168.00	256.00	KG		

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		PART A	PART B	PART C	Total Quantities			
165	Providing and applying bond coat on the prepared surface with two component epoxy based bonding coat Nitobond EP of Fosroc make or equivalent, having specific gravity 1.15 to 1.2 gm/cc,. The bonding agent shall be applied by brush & should remain in tacky state after application for a minimum period of 5-6 hrs at 20 deg C & 2-3 hrs at 30 deg C. Laying of reinstatement polymer modified mortar or micro concrete shall be completed within the overlay time of bonding coat.	0.00	65.00	192.00	257.00	Sqm		
166	Construction of Horizontal and Vertical Seismic Band as per IS: 13925 by cutting chase in existing plaster by mechanical cutter, removing plaster, raking expose joints, cleaning, providing and fixing 3.25 mm dia (Gauge 10) Galvanised steel wire fabric mesh with spacing 25 mm x 25 mm to be fixed & firmly anchored to the surface of Brick masonry , stone masonry or concrete by means of GI steel shear key or bolts and tying the mesh to the bolts with GI binding wire including fixing the steel bars in position using epoxy resin anchor grout of approved make complete with cost of labour, tool & plants etc. complete as required for fixing as per direction of Engineer-in-charge.	0.00	75.00	295.00	370.00	SQM		
167	Supply and apply Nitobond AR, an acrylic-based emulsified solution containing a minimum of 43% solids and compatible with cementitious materials. The bonding agent shall provide sufficient bond strength when applied directly on concrete or when mixed with neat cement. Ensure proper application to achieve effective adhesion between substrates and subsequent layers of cementitious materials, adhering to manufacturer's recommendations for optimal performance and durability in construction applications. Nitobond AR is particularly suitable when a longer working period after applying the bonding agent is required	0.00	22.00	35.00	57.00	Sqm		
168	Surface Preparation: Make a 'V' groove 5 mm wide and 5 mm deep over the crack line using an electrically operated angle grinder with a diamond concrete saw blade. Clean the groove thoroughly with an air blower as directed by the Engineer-in-charge.	0.00	32.00	50.00	82.00	M		
169	Sealing with Epoxy Repair Mortar: Seal the exposed 'V' groove (5 mm deep, 5 mm wide) with a solvent-free, moisture-tolerant, thixotropic, two-part structural adhesive and epoxy repair mortar cum surface leveling mortar. Ensure the epoxy repair mortar has compressive strength ≥ 60 N/mm ² (7 Days, BS 6319), flexural strength ≥ 20 N/mm ² (7 Days, BS 6319), and tensile strength ≥ 10 N/mm ² (7 days, ASTM C 307). Use products like NITOMORTAR S OF FOSROCC, Sikadur®-31 of Sika, MasterBrace 2200 BASF, or equivalent of Pidilite.	0.00	31.00	50.00	81.00	M		
170	Supply and install reinforcement bars using Heavy Duty rebaring chemical Fosroc LOKFIX E77 for main bars and LOKFIX E45T for shear connectors, pure epoxy chemical anchor grout with ETA approval from DIBt, suitable for reinforcement bars ranging from 8 mm to 40 mm in diameter at specified embedment depths as per manufacturer's specifications. The epoxy chemical must have a working life period certified for 50 or 100 years as per ETA from DIBt, with properties including fire resistance tested to withstand 120 minutes (DIN EN 1363-1:2012, Technical Report TR 020), and must have water tightness certificate for "0" mm under 5 bar water pressure (EN 12390-8:2019). ETA approval from DIBt for Diamond Drilling is required, alongside LEED certification and compliance with LEED V4 standards (ISO 16000, EN 16516, CDPH 01350, ASTM D2369, EPA method 24). Rates shall encompass labor, tools and plants for power drilling in concrete, epoxy cartridges, plastic nozzles, and complete drilling holes with dust removal by air blowing. Additional charges apply for reinforcement bars. (Product :- Lockfix of Fosroc/ RE-500 of Hilti/ MasterFlow 935 AN of BASF/ Fischer/Wruth) :Rebar 10 mm Dia x 14 mm holes x 100mm depth	0.00	62.00	100.00	162.00	Nos		

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		PART A	PART B	PART C	Total Quantities			
171	Supply and install reinforcement bars using Heavy Duty rebaring chemical Fosroc LOKFIX E77 for main bars and LOKFIX E45T for shear connectors, pure epoxy chemical anchor grout with ETA approval from DIBt, suitable for reinforcement bars ranging from 8 mm to 40 mm in diameter at specified embedment depths as per manufacturer's specifications. The epoxy chemical must have a working life period certified for 50 or 100 years as per ETA from DIBt, with properties including fire resistance tested to withstand 120 minutes (DIN EN 1363-1:2012, Technical Report TR 020), and must have water tightness certificate for "0" mm under 5 bar water pressure (EN 12390-8:2019). ETA approval from DIBt for Diamond Drilling is required, alongside LEED certification and compliance with LEED V4 standards (ISO 16000, EN 16516, CDPH 01350, ASTM D2369, EPA method 24). Rates shall encompass labor, tools and plants for power drilling in concrete, epoxy cartridges, plastic nozzles, and complete drilling holes with dust removal by air blowing. Additional charges apply for reinforcement bars. (Product :- Lockfix of Fosroc/ RE-500 of Hilti/ MasterFlow 935 AN of BASF/ Fischer/Wruth) :Rebar 12 mm Dia x 16 mm holes dia x 120 mm depth	0.00	65.00	120.00	185.00	Nos		
172	Supply and install reinforcement bars using Heavy Duty rebaring chemical Fosroc LOKFIX E77 for main bars and LOKFIX E45T for shear connectors, pure epoxy chemical anchor grout with ETA approval from DIBt, suitable for reinforcement bars ranging from 8 mm to 40 mm in diameter at specified embedment depths as per manufacturer's specifications. The epoxy chemical must have a working life period certified for 50 or 100 years as per ETA from DIBt, with properties including fire resistance tested to withstand 120 minutes (DIN EN 1363-1:2012, Technical Report TR 020), and must have water tightness certificate for "0" mm under 5 bar water pressure (EN 12390-8:2019). ETA approval from DIBt for Diamond Drilling is required, alongside LEED certification and compliance with LEED V4 standards (ISO 16000, EN 16516, CDPH 01350, ASTM D2369, EPA method 24). Rates shall encompass labor, tools and plants for power drilling in concrete, epoxy cartridges, plastic nozzles, and complete drilling holes with dust removal by air blowing. Additional charges apply for reinforcement bars. (Product :- Lockfix of Fosroc/ RE-500 of Hilti/ MasterFlow 935 AN of BASF/ Fischer/Wruth) : Rebar 16 mm Dia x 20 mm holes dia x 160 mm depth	0.00	112.00	220.00	332.00	Nos		
173	Strengthening: Carbon fibre wrap/Carbon Laminates - Providing and applying uni directional, high strength carbon fiber sheets Nitowrap CWS of 450 GSM/ dry fabric thickness.The FRP fabric used shall be of zero degree unidirectional fibers having fiber density of 1.8 g/cc and shall have tensile strength > 4900 MPa ; tensile modulus > 230 GPa and ultimate elongation of 2.1%. The substrate shall be primed with Nitowrap 30 epoxy primer & Nitowrap 410 impregnating resin saturant shall be used for saturating the fibers. Saturant used shall have tensile strength of >30 MPa; Elongation > 2% ; Flexural strength > 30 MPa ; Tensile Modulus > 2400 MPa & Flexural Modulus > 1700 MPa when tested as per ASTM D638 Type I and ASTM D 790 & Glass Transition Temperature > 50 deg Celcius as per ASTM E 1356.The adhesion of the entire system(FRP Sheet, Saturant and primer combined) with concrete shall be > 3.5 MPa with concrete failure as per ASTM D 4541. (Product :- Nitowrap CWS of 450 GSM of Fosroc, Sikawrap® 930 G of Sika / MasterBrace FIB 73/900 of BASF) Surface preparation: Grinding/ moulding concrete substrate cleaning it with wire brush removing oil, laitance if present, rounding sharp edges to min 25mm radius etc. complete. Profiling : Applying compatible primer of approved make and brand on prepared substrate, filling the holes and uneven surface with thixotropic putty etc. complete. Wrapping : Wrapping the fiber sheet with recommended overlapping to structural element at desired orientation using tamping roller to avoid any air voids etc. repeat the same procedure for multiple layer with the interval of 8 hrs. Sand Pasting : Applying second coat of saturated after 12 hrs. rectify air voids if any, paste the coarse sand on it to make surface rough to take any further finishes (Mode of measurement : Per sqm surface area of application per layer).	0.00	48.00	35.00	83.00	SQM		
174	Supply and install fiber anchors to be embedded at a depth of 75 mm with 75 mm protrusion, spaced at 500 mm center to center. (Product make: Fosroc/ Sika/ BASF)	0.00	52.00	150.00	202.00	Nos		

S.No.	Description	Quantities				Unit	Rate (In Rs.) e/x GST	Amount (In Rs.) e/x GST
		PART A	PART B	PART C	Total Quantities			
175	PU Grout - Water-stopping crack injection resin foam shall be Nitofill WS60, a two-part foaming liquid polyurethane. When mixed in the supplied proportions and injected into concrete cracks, the resin reacts with moving water to create a foam barrier that stops water infiltration. The resin's properties include a pot life of 6-8 hours at 20°C, specific gravity of 1.11 ± 0.03, and foam density of 0.024g ± 0.003. Used alongside Nitofill UR63, a flexible two-part polyurethane injection resin, it ensures a permanent seal in cracked concrete. Nitofill UR63 is a solvent-free liquid polyurethane that, when mixed and injected into cracks, forms a slightly flexible and impermeable barrier in dry and damp conditions. This polyurethane system features a pot life of 60 to 80 minutes at 25°C, reaction time of 70 to 90 minutes at 25°C, viscosity of 40-60 cps at 25°C, and specific gravity of 1.1. When combined with Nitofill WS60, the foaming polyurethane resin, it guarantees a durable seal in cracked concrete :Nitofill WS60	0.00	18.00	45.00	63.00	Kg		
176	PU Grout - Water-stopping crack injection resin foam shall be Nitofill WS60, a two-part foaming liquid polyurethane. When mixed in the supplied proportions and injected into concrete cracks, the resin reacts with moving water to create a foam barrier that stops water infiltration. The resin's properties include a pot life of 6-8 hours at 20°C, specific gravity of 1.11 ± 0.03, and foam density of 0.024g ± 0.003. Used alongside Nitofill UR63, a flexible two-part polyurethane injection resin, it ensures a permanent seal in cracked concrete. Nitofill UR63 is a solvent-free liquid polyurethane that, when mixed and injected into cracks, forms a slightly flexible and impermeable barrier in dry and damp conditions. This polyurethane system features a pot life of 60 to 80 minutes at 25°C, reaction time of 70 to 90 minutes at 25°C, viscosity of 40-60 cps at 25°C, and specific gravity of 1.1. When combined with Nitofill WS60, the foaming polyurethane resin, it guarantees a durable seal in cracked concrete :Nitofill UR63	0.00	18.00	45.00	63.00	Kg		
177	Supply and apply Dekguard E2000, a high-performance elastomeric protective anticarbonation coating for concrete and masonry. The protective coating system includes a penetrating silane-siloxane primer (Dekguard Primer) and a single-component elastomeric anticarbonation aliphatic acrylic coating (Dekguard E2000). Ensure the total dry film thickness of the protective coating system is not less than 200 microns. The coating system shall provide CO2 diffusion resistance of at least 50 meters (equivalent air layer thickness), static crack accommodation of minimum 2mm, and adhesion greater than 1.0 N/mm² as per ASTM D 4541. The product used must meet specified performance standards for durability and protection against carbonation. Apply in accordance with manufacturer's guidelines to ensure effective long-term performance and adherence to project requirements	0.00	18.00	20.00	38.00	Sqm		
178	Providing, cutting and laying SWG10 welded wire mesh and mesh size 50x50 mm including anchoring it on the wall with 4.75mm bar by drilling and fixing with cement slurry as per drawing details,specification and instruction by the Engineer.	0.00	278.00	550.00	828.00	Sqm		
179	EXTRA PAYMENT FOR USING 15mm plaster - UltraTech Readiplast is a ready mix cement plaster/ render with high quality polymer additives, special binders, well graded sand and fillers can be applied onbrick & block masonry for both external and internal plastering works.	0.00	70.00	70.00	140.00	SQM		
180	Extra for using Dholpur/Jaisalmer stone grit inplace of ordinary grit	0.00	430.00	935.00	1365.00	SQM		
181	Providing and fixing circular/hexagonal cast iron or M.S. sheet box for ceiling fan clamp of internal dia 140 mm, 73 mm height, top lid 1.5 mm thick M.S. sheet with its top surface hacked for proper bonding, top lid shall be screwed into the cast iron/ M.S sheet box by mean of 3.3 mm dia round headed screw, one lock at the corners. Clamp shall be made of 12 mm dia m.s bar bent to shape as per standard drawing.(10.18-AR134)	0.00	5.00	12.00	17.00	EACH		
182	Dismantling stone slab flooring laid in cement mortar including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	0.00	0.00	20.00	20.00	SQM		
183	Dismantling aluminium/ Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable material and stacking of serviceable material with in 50 meters lead as directed by Engineer-in-charge.	0.00	0.00	125.00	125.00	SQM		
184	Dismantling roofing including ridges, hips valleys and gutters etc., and stacking the material within 50 metres lead of: G.S. Sheet	0.00	0.00	155.00	155.00	SQM		

S.No.	Description	Quantities				Unit	Rate (In Rs.) e/x GST	Amount (In Rs.) e/x GST
		PART A	PART B	PART C	Total Quantities			
185	Providing and laying in position ready mixed plain cement concrete in road / taxi track/runways, with cement content as per approved design mix, using coarse sand and graded stone aggregate up to 40mm nominal size in appropriate proportions as per approved & specific design criteria and manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for plain cement concrete work, including pumping of R.M.C. from transit mixer to site of laying, spreading, compacting mechanically by using needle and surface vibrator, levelling to required slope/camber and curing, including the cost of centring, shuttering and finishing, including cost of curing, admixtures in recommended proportions as per IS : 9103 to accelerate/retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer-in-charge. All works up to plinth level :M-10 grade plain cement concrete (cement content consider @ 220 kg/cum)	0.00	0.00	32.00	32.00	CUM		
186	Providing and laying in position ready mixed or site batched design mix cement concrete for plain cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland pozzolana/Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering and finishing as per direction of the engineer-in-charge; for the following grades of concrete (make- ACC, Lafarage, Afcon, Ultra Tech).Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 110% of the minimum specified cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement.All works above plinth and upto floor V level : Concrete of M25 grade with minimum cement content of 300 kg /cum	0.00	0.00	80.00	80.00	CUM		
187	Extra for additional height in centering, shuttering where ever required with adequate bracing, propping etc., including cost of de shuttering and decentering at all levels, over a height of 3.5 m, for every additional height of 1 metre or part thereof (Plan area to be measured) : Suspended floors, roofs, landing, beams and balconies (Plan area to be measured). (5.11.1-AR50)	0.00	0.00	1340.00	1340.00	SQM		
188	Raking out joints in lime or cement mortar and preparing the surface for re-pointing or replastering, including disposal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge.	0.00	0.00	250.00	250.00	SQM		
189	FORMING GROOVE OF UNIFORM SIZE IN THE TOP LAYER OF WASHED STONE GRIT PLASTER AS PER APPROVED PATTERN USING WOODEN BATTENS,NAILED TO THEUNDER LAYER INCLUDING REMOVAL OF WOODEN BATTENS,REPAIR TO THEEDGES OF PANELS AND FINISHING THE GROOVE COMPLETE AS PERSPECIFICATION AND DIRECTION OF THE ENGINEER-IN-CHARGE. 20 MM WIDEAND 15 MM DEEP GROOVE (13.73.2-AR226)	0.00	0.00	2350.00	2350.00	M		
190	Structural steel work welded in built up sections, trusses and framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete: Using ISMB, heavy section of angle and channel for truss, supporting structures. (AR139)	0.00	0.00	47750.00	47750.00	KG		
191	Provide and apply single-component, free-flowing, non-shrink cementitious microconcrete at a water-to-powder ratio of 0.15. The microconcrete should have a fresh wet density of 2200 kg/m³ at 27°C and an unrestrained expansion of 1 to 4% as per ASTM C827. It must achieve a flowable consistency and compressive strength of not less than 10 N/mm² after 24 hours, 35 N/mm² after 7 days, and 45 N/mm² after 28 days at 30°C. The cured microconcrete shall be free from metallic aggregates and chlorides, and it must be shrinkage-compensated in the plastic state. Payment will be based on the consumed dry material of the microconcrete mix (Product :- Renderoc RG 45 of Fosroc/ SikaRep® Microcrete -4 of Sika / MasterEmaco S-346 of BASF or equivalent of Pidilite) : Without addition of aggregate	0.00	0.00	7.00	7.00	cum		

S.No.	Description	Quantities				Unit	Rate (In Rs.) e/x GST	Amount (In Rs.) e/x GST
		PART A	PART B	PART C	Total Quantities			
192	Provide and apply single-component, free-flowing, non-shrink cementitious microconcrete at a water-to-powder ratio of 0.15. The microconcrete should have a fresh wet density of 2200 kg/m ³ at 27°C and an unrestrained expansion of 1 to 4% as per ASTM C827. It must achieve a flowable consistency and compressive strength of not less than 10 N/mm ² after 24 hours, 35 N/mm ² after 7 days, and 45 N/mm ² after 28 days at 30°C. The cured microconcrete shall be free from metallic aggregates and chlorides, and it must be shrinkage-compensated in the plastic state. Payment will be based on the consumed dry material of the microconcrete mix (Product :- Renderoc RG 45 of Fosroc/ SikaRep® Microcrete -4 of Sika / MasterEmaco S-346 of BASF or equivalent of Pidilite): With addition of 6 mm down aggregate in 3:1 (3 Micro concrete: 1 aggregate 6 mm & down)	0.00	0.00	7.00	7.00	cum		
Total Cost e/x GST@18% of I								
II	IT WORK							
S.No	Description	Qty.			Unit	Rate (In Rs.)	Amount (In Rs.)	
1	IT Points	30			Pnt			
Total cost e/x GST@18%-Part-A2								
III	FIRE WORK							
S.No	Description	Qty.			Unit	Rate (In Rs.)	Amount (In Rs.)	
1	Smoke detector	15			Ea			
2	Alarm/Hooter	1			Ea			
3	Fire alarm panel	1			Ea			
4	Cabel	150			Mtr			
Total cost e/x GST@18%-Part-A3								
IV	AC WORK							
S.No	Description	Qty.			Unit	Rate (In Rs.)	Amount (In Rs.)	
1	Supply & Installation of Split AC 1.5 Ton,5 Star Inverter AC with R-32/410 green Gas and Max Ambient Temp-50 deg c with 3 metre copper pipe,pvc drain pipe and power cable. Make : Bluestar/voltas/Dakin	15			NOS			
2	Supply and installation of Stabilizer 4KVA voltage range (170V - 270 V) suitable for Inverter Split AC, Split AC Make : V-Guard/Blue Gaurd	15			NOS			
3	Supply and Installation of Out Door Unit Stand	15			NOS			
4	Supply and installation of extra copper pipe required for 1.5 ton & 2.0 Ton split AC installation as per site requirement (Suction line -1/2" + Liquid line- 1/4") with suitable foam insulation.(Over and above 3.0 Meter supplied with AC unit)	45			MTR			
5	Supply and installation of extra PVC Hard drain pipe 25mm with Accessories required for installation.	45			MTR			
6	Supply and Installation of Electrical Cable (3C * 2.5 Sq.mm) (Over and above 3.0 Meter supplied with AC unit)	100			MTR			
Total cost e/x GST@18%-Part-A4								
Total Cost e/x GST@18% of Package IV (I+II+III+IV)								

ATTACHMENT - V

PACKAGE-V, Price Breakup

PART - A: Civil Repairing works at Complaint Centre Lajpat Rai Market Chandni Chowk.

PART - B: Civil Repairing works at Complaint Centre Hauz Qazi daryaganj.

PART - C: Civil Repairing works at Complaint Centre, RAM NAGAR NEAR SHEELA CINEMA.

PART - D: Civil Repairing works at Complaint Center Jama Masjid

PART - E:- Civil Repairing works at Ghata masjid Complain Center

S.No.	Description	Quantities					Total Quantity	Unit	Rate in ₹ e/x GST	Amount in ₹ e/x GST
		Part A	Part B	Part C	Part D	Part E				
1	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 disposal of excavated earth, lead upto 50 m and lift upto 1.5 m, disposed earth to be levelled and neatly dressed : All kinds of soil.	15.00	25.00	150.00	25.00	35.00	250.00	CUM		
2	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	25.00	15.00	50.00	20.00	35.00	145.00	CUM		
3	Felling trees of the girth (measured at a height of 1 m above ground level), including cutting of trunks and branches, removing the roots and stacking of serviceable material and disposal of unserviceable material.Beyond 60 cm girth upto and including 120 cm girth	6.00	7.00	5.00	7.00	1.00	26.00	Each		
4	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:1½:3 (1 Cement: 1½ coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	20.00	22.00	25.00	18.00	22.00	107.00	CUM		
5	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:4:8 (1 Cement : 4 coarse sand (zone-III) derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources)	20.00	22.00	50.00	25.00	15.00	132.00	CUM		
6	Reinforced cement concrete work in beams, suspended floors, roofs having slope upto 15°, landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases upto floor five level excluding the cost of centring, shuttering, finishing and reinforcement with 1:1.5:3 (1 Cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	10.00	15.00	20.00	15.00	10.00	70.00	CUM		
7	Centring and shuttering including strutting, propping etc. and removal of form work for : Foundations, footings, bases of columns.	30.00	30.00	85.00	25.00	25.00	195.00	SQM		
8	Centring and shuttering including strutting, propping etc. and removal of form for: Suspended floors, roofs, landings, balconies and access platform	18.00	27.00	350.00	15.00	22.00	432.00	SQM		
9	Reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete. cold twisted bars	400.00	400.00	20,500.00	120.00	1,200.00	22,620.00	KG		
10	Add for plaster drip course/groove in plastered surface or moulding to R.C.C. projections	45.00	50.00	36.38	50.00	-	181.38	M		
11	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in cement mortar 1 : 4 (1 cement : 4 coarse sand)	18.00	12.00	30.00	20.00	12.00	92.00	CUM		
12	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : Cement mortar 1:4 (1 cement : 4 coarse sand)	17.00	14.00	70.00	25.00	18.00	144.00	CUM		
13	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	10.00	20.20	34.27	20.20	40.00	124.67	SQM		
14	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete for retrofitting work.	1,900.00	1,000.00	2,668.15	1,500.00	500.00	7,568.15	KG		
15	52 mm thick cement concrete flooring with concrete hardener topping, under layer 40 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and top layer 12 mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate 6 mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufacturer's specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete.	80.00	120.00	69.27	172.73	-	442.00	SQM		
16	Cement plaster skirting (upto 30 cm height) with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement. 18 mm thick	11.00	9.50	8.58	9.50	-	38.58	SQM		
17	Providing and fixing glass strips in joints of terrazo/cement concrete floors. - 40 mm wide and 4 mm thick.	210.00	416.69	134.43	416.69	-	1,177.81	M		

S.No.	Description	Quantities					Total Quantity	Unit	Rate in ₹ e/x GST	Amount in ₹ e/x GST
		Part A	Part B	Part C	Part D	Part E				
18	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete with base of cement mortar 1:4 (1cement : 4 coarse sand) : 25 mm thick	10.00	5.40	15.00	5.40	-	35.80	SQM		
19	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12mm (average) thick cement mortar 1:3 (1cement : 3coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.	10.00	1.40	15.00	1.40	-	27.80	SQM		
20	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), Jointing with grey cement slurry @ 3.3 kg/sqm including pointing the joints with white cement and matching pigment etc.,complete.	15.00	2.87	5.76	2.87	15.00	41.50	SQM		
21	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600 mm	10.00	10.00	255.39	120.00	-	395.39	SQM		
22	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement :2 coarse sand : 4 graded stone aggregate of 10 mm and down gauge) including finishing with cement mortar 1:3 (1 cement: 3 fine sand) as per standard design : In 75 x75 mm deep chase	85.00	97.83	86.50	97.83	80.00	447.16	M		
23	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 m x1 m x 400 micron, finished with 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.	4.00	6.00	12.00	6.00	12.00	40.00	Each		
24	Providing and fixing pre-coated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineerin- charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	110.00	5.00	23.00	5.00	-	143.00	SQM		
25	12 mm cement plaster of mix: 1:4 (1 cement : 4 coarse sand)	115.00	87.24	288.22	87.24	80.00	657.70	SQM		
26	15 mm cement plaster on rough side of single or half brick wall of mix 1:4 (1 cement : 4 coarse sand)	115.00	45.79	110.90	45.79	65.00	382.48	SQM		
27	6 mm cement plaster of mix : 1:3 (1 cement: 3 fine sand)	10.00	5.00	254.27	5.00	-	274.27	SQM		
28	Neat cement punning	175.00	191.27	308.12	191.27	210.00	1,075.66	SQM		
29	Extra for providing and mixing water proofing material in cement plaster work in proportion recommended by the manufacturers.(Per Bag of 50 KG cement used in the mix)	30.00	10.00	30.00	10.00	25.00	105.00	Each		
30	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	680.00	720.55	8.40	720.55	800.00	2,929.50	SQM		
31	Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade. New work (two or more coats) over and including water thinnable priming coat with cement primer	15.00	25.00	30.00	25.00	30.00	125.00	SQM		
32	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)	15.00	25.00	25.00	25.00	-	90.00	SQM		
33	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade :Two or more coats on new work	680.00	900.00	288.52	1,220.44	800.00	3,888.96	SQM		
34	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade. Two or more coats on new work.	250.00	545.39	121.07	545.39	350.00	1,811.85	SQM		

S.No.	Description	Quantities					Total Quantity	Unit	Rate in ₹ e/x GST	Amount in ₹ e/x GST
		Part A	Part B	Part C	Part D	Part E				
35	Washed stone grit plaster on exterior walls of height upto 10 metre above ground level, in two layers, under layer 12mm cement plaster 1:4 (1cement: 4 coarse sand), furrowing the under layer with scratching tool, applying cement slurry on the under layer @ 2 Kg of cement per square metre, top layer 15mm cement plaster 1:1/2:2 (1 cement: 1/2 coarse sand :2 stone chipping 10mm nominal size), in panels with groove all around as per approved pattern, including scrubbing and washing the top layer with brushes and water to expose the stone chippings, complete as per specification and direction of Engineer-in- charge (Payment for providing grooves shall be made separately).	310.00	799.61	468.44	799.61	290.00	2,667.66	SQM		
36	Forming groove of uniform size from 12x12mm and upto 25x15mm in the top layer of washed stone grit plastered surface as per approved pattern, including providing and fixing aluminum channels of appropriate size and thickness (not less than 2 mm), nailed to the under layer with rust proof screws and nails and finishing the groove complete as per specifications and direction of the Engineer-in-Charge.	700.00	1,890.75	908.46	1,890.75	710.00	6,099.96	M		
37	Extra for using white cement in place of ordinary cement in the top layer of the item of washed stone grit plaster.	310.00	799.61	468.44	799.61	290.00	2,667.66	SQM		
38	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.	15.00	25.00	25.00	25.00	-	90.00	SQM		
39	Removing dry or oil bound distemper water proofing cement paint and the like by scrapping, sand paping and preparing the surface smooth including necessary repairs to scratches etc. complete.	685.00	1,484.55	33.40	1,484.55	800.00	4,487.50	SQM		
40	Raking out joints in lime or cement mortar and preparing the surface for re-pointing or replastering, including disposal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge.	180.00	178.98	-	178.98	210.00	747.96	SQM		
41	Providing and fixing double scaffolding system (cup lock type) on the exterior side of building/ structure, upto 25 metre height, above ground level including additional rows of scaffolding in stepped manner as per requirement of site, made with 40mm dia. M.S. tube 1.5 m centre to centre horizontal & vertical tubes joining with cup & lock system with M.S. tubes, M.S. tube challis, M.S. clamps and staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for execution of work of cleaning and / or pointing and/ or applying chemical and removing it thereafter. The scaffolding system shall be stiffened with bracings, runners, connection with the building etc, wherever required, if feasible, for inspection of work at required locations with essential safety features for the workmen etc. complete as per directions and approval of Engineer-in-charge .The elevational area of the scaffolding shall be measured for payment purpose .The payment will be made once only for execution of all items for such works.	10.00	836.00	-	852.00	220.00	1,918.00	SQM		
42	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of engineer in charge. Nominal concrete: 1:3:6 or richer mix (i/c equivalent design mix)	14.00	11.44	21.00	11.44	-	57.88	CUM		
43	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in-charge.	2.00		0.82	-	-	2.82	CUM		
44	Extra for cutting reinforcement bars manually/ by mechanical means in R.C.C. or R.B. work (Payment shall be made on the cross sectional area of R.C.C. or R.B. work) as per direction of Engineer in-charge.	2.00		1.42	-	-	3.42	SQM		
45	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	158.00	165.00	350.00	125.00	150.00	948.00	CUM		
46	Demolishing brick work manually /by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-In-charge.: In cement mortar	15.00	12.00	14.00	11.00	11.00	63.00	CUM		
47	Dismantling steel work in built up sections in angles, tees, flats and channels including all gusset plates, bolts, nuts, cutting rivets, welding etc. including dismembering and stacking within 50 m lead.	200.00	150.00	300.00	150.00	105.00	905.00	KG		
48	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead:For thickness of tiles 10 mm to 25 mm	80.00	23.07	36.00	23.07	160.00	322.14	SQM		
49	Dismantling stone slab flooring laid in cement mortar including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	2.00	1.00	-	1.00	-	4.00	SQM		
50	Demolishing mud phaska in terracing and disposal of material within 50 metres lead (15.27-AR282)	25.00	26.85	33.97	26.85	-	112.67	CUM		

S.No.	Description	Quantities					Total Quantity	Unit	Rate in ₹ e/x GST	Amount in ₹ e/x GST
		Part A	Part B	Part C	Part D	Part E				
51	Dismantling roofing including ridges, hips valleys and gutters etc., and stacking the material within 50 metres lead of: G.S. Sheet	40.00	2.00	9.01	2.00	-	53.01	SQM		
52	Dismantling old plaster or skirting, raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	500.00	1,030.27	678.44	500.00	160.00	2,868.71	SQM		
53	Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 metre openable length (total length 90 m), having 50 nos rounds per 6 metre length, upto 3 m height of wall with existing angle iron 'Y' shaped placed 2.4m or 3.00 m apart and with 9 horizontal R.B.T. reinforced barbed wire, stud tied with G.I. staples and G.I. clips to retain horizontal, including necessary bolts or G.I. barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape(R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mm with tape (0.52 mm thick) and weight 43.478 gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately)	100.00	100.00	150.00	100.00	100.00	550.00	M		
54	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with line sand etc. all complete as per the direction of Engineer-in-charge.	25.00	30.00	125.00	110.00	119.00	409.00	SQM		
55	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required: White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	1.00	1.00	1.00	1.00	1.00	5.00	Each		
56	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including W.C. pan with ISI marked white solid plastic seat and lid	1.00	1.00	1.00	1.00	1.00	5.00	Each		
57	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm and 340x410x265 mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I. clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required : One urinal basin with 5 litre white P.V.C. automatic flushing cistern	2.00	1.00	2.00	1.00	1.00	7.00	Each		
58	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require: White Vitreous China Flat back wash basin size 550x 400 mm with single 15 mm C.P. brass pillar tap	2.00	1.00	1.00	1.00	1.00	6.00	Each		
59	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. Flexible pipe- 32 mm dia	4.00	2.00	3.00	2.00	2.00	13.00	Each		
60	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. 20 mm nominal dia Pipes (Internal work - Exposed on wall)	40.00	50.00	50.00	75.00	45.00	260.00	M		
61	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. 20 mm nominal dia Pipes (Concealed work, including cutting chases and making good the walls etc.)	45.00	40.00	50.00	75.00	50.00	260.00	M		
62	Providing and fixing brass bib cock of approved quality : 20 mm nominal bore	2.00	2.00	2.00	2.00	2.00	10.00	Each		
63	Providing and fixing brass stop cock of approved quality : 20 mm nominal bore	4.00	2.00	3.00	2.00	2.00	13.00	Each		
64	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet : 150 mm diameter	1.00	1.00	1.00	1.00	1.00	5.00	Each		

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		Part A	Part B	Part C	Part D	Part E				
65	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	1,000.00	1,000.00	2,000.00	1,000.00	1,000.00	6,000.00	PER LITRE		
66	Removing of damaged / broken / twisted IRC welded mesh fencing panels repairing of damaged / broken members , replacing new members if required, setting right the fencing panel in proper shape and size as per site requirement, re-fixing of panel at old location / new location in proper position and required alignment, Rate includes the cost of all labour , T & P , welding rods, welding machine, etc complete. The cost of structural steel and nut bolts, washers, IRC welded Mesh etc., if required will be paid separately.	50.00	50.00	70.00	50.00	50.00	270.00	SQM		
67	Providing and laying water proofing treatment (Dr. Fixit PidicreteURP) on roofs, by mixing Dr. Fixit Pidicrete URP with cement inratio (1:1.5) by weight. Applying : (a) First layer of slurry of cement @ 0.324 kg/sqm mixed with water proofing cement compound @0.216 kg/sqm. This layer will be allowed to air cure for 4 hours. (b)Second layer of slurry of cement @ 0.324 kg/sqm mixed with waterproofing cement compound @ 0.216 kg/sqm. This layer will be allowedto air cure for 4 hours followed with water curing for 48 hours. Therate includes preparation of surface, treatment and sealing of alljoints, corners, junctions of pipes and masonry with polymer mixedslurry.	10.00	10.00	10.00	10.00	215.00	255.00	SQM		
68	Providing & Laying glass fiber cloth of approved quality all complete as per direction of engineer incharge.	10.00	10.00	10.00	10.00	215.00	255.00	SQM		
69	15 mm cement plaster 1:4 (1Cement : 4 Coarse sand) containing waterproofing compound (Dr Fixit Pidicrete URP): 15 mm cement plaster.	10.00	10.00	10.00	10.00	215.00	255.00	SQM		
70	Providing and fixing 60 cm long PVC rain water spout in proper line and level in cement mortar 1:4 (1 cement : 4 fine sand) in the existing khurra level, dismantling wall/ pipe and making hole of required size for fixing of pipe, filling CC 1:3:6 (1cement :3 coarse sand : 6 graded stone aggregate 20mm nominal size) between wall and pipe, plastering both sides of walls with cement mortar 1:4 (1 cement :4 fine sand)and making the pipe joint leak proof.	10.00	2.00	8.00	2.00	12.00	34.00	Each		
71	Chipping of Unsound Concrete :Cleaning the concrete surface by removing dirt and debris, marking defective locations and Chipping/removing of loose/Unsound/weak concrete from slabs beams , columns etc by careful stripping untill hard surface is exposed, cutting the concrete to regular shape, wire brushing the exposed surface and removing debris from site complete as per direction of the Engineer - in - Charge. Upto 75mm average. Protective coating: Applying two coats of surface applied Bipolar Corrosion inhibitor FAIRCURETE C SURFACE APPLIED or equivalent as per manufacturer's specification and direction of the Engineer	35.00	26.16	70.00	26.16	80.00	237.32	SQM		
72	Rust Removal & Anti corrosive coating						-			
73	Providing and applying Reebaklens RR, a combination of acid based material, corrosion inhibitors and dispersing agents rust remover, for removal of all rust/ scales/corrosion from reinforcement bars before microconcreting or patch repair, having Specific Gravity 1.16-1.22. Reebaklens RR Shall be applied with brush for complete wetting of rusted metal surface at coverage of 2-2.5 Sqm/ltr. & allow it to react for 16-24 hours. After 24 hours, a white layer will appear which will protect further corrosion of metal /steel for about 5-7 days. Before applying any protective coating, the surface should be wire brushed and thoroughly cleaned for dust with dry cloth.	150.00	180.00	125.00	180.00	110.00	745.00	SQM		
74	Providing and applying Nitozinc Primer an epoxy based zinc rich anti corrosive primer having adhesive bond strength ≥ 1.5 MPa as per ASTM D4541, & shall comply to per ASTM B-117 to be applied on well cleaned, fully exposed and all loose scale , rust free surface obtained by grit blasting or suitable means , to be done with coverage @4.5sqm/litres to achieve a minimum thickness of 40microns DFT or as per direction of Engineer-In charge. (Mode of measurement- per sqmt of breaking area of concrete)(Fosroc- Nitozinc Primer & Sika- Sika® FerroGard®-950 IN	100.00	180.00	75.00	180.00	110.00	645.00	SQM		

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		Part A	Part B	Part C	Part D	Part E				
75	Providing and applying Renderoc SP40 shrinkage compensated fiber reinforced polymer modified wet spray repair mortar on the prepared surface and curing with curing compound. The repair mortar used shall be single component and shall be mixed with water at water powder ratio of 0.18 and shall have drying shrinkage < 1000 microstrain as per ASTM C 157-93; compressive strength > 40 MPa ; Flexural Strength > 7 Mpa as per ASTM C 348, bond strength > 6 MPa as per ASTM C 1042, etc complete. Product used shall have CE (CE-29842) marking and compliance according to Construction Products Directive 89/106/EEC (CPD). Cost of curing compound shall be paid separately. Thickness 25mm. [Polymer Modified Mortar for Surface Repair (Lesser thickness & Larger surface area- Wet spray mortar)]	35.00	172.15	70.00	85.00	80.00	442.15	SQM		
76	Providing and applying Concure 1315, a acrylic polymer based non-degrading single component having solid content 33% to be applied over the freshly casted concrete members. The coating shall be applied using brush/roller/roller @ consumption of 200ml/coat/sqm. The coating shall comply to ASTM C1315 Type 2, & shall have moisture retention < 0.4 kg/m² as per ASTM C156, Adhesion of tile cement : >0.5 N/mm² .[Curing Compound]	35.00	172.15	70.00	85.00	80.00	442.15	SQM		
77	Polyurethane Waterproofing by Dr.Fixit Flexi PU 270(I) : Removing & chipping off of existing loose plaster. Clean the surface from contaminants with brush. Remove any sharp protrusion on the blinding layer by chipping and local repairs. Surface Preparation: All surfaces which are to receive the coating must be free from oil, laitance, grease, wax, dirt or any other form of foreign matter which might affect adhesion. Cut back any protrusions. Typically concrete surfaces can be cleaned using high pressure water jet or by proper wire brushing/grinder. All cracks, construction joints, honey combed/damaged surface to be repair with PMM and cracks to be chase out by cutting 25mm x 25mm "V" shape groove all along the crack, cleaning cracks and sealing it using Mesto Grout HS , curing etc., all complete as per the manufactureres specification and direction of engineer-in-charge. L Shape, Angular Fillet: Providing 50 mm X 50 mm angle fillets on the vertical up-stands, parapet wall junction corners, service units and properly dressed by preparing polymer modified mortar with Pidicrete URP or equivalent in the ratio of 1:3 by adding polymer 10% by weight of the cement, add little water, until the required consistency is achieved. Injection Grouting: Providing and applying injection grouting treatment by chemical injection grout process at construction joints, wall joints, honey comb areas etc. in concrete surface or the area using nozzles of min 25-50mm deep in slabs along with construction joints consisting of injection cement slurries of different viscosities under pressure by pump using injection grout waterproofing chemical (Pidicrete AM) mixed with neat cement slurry and sealing off nozzles after the injection operation. PU Waterproofing Coating: Supplying and applying, Dr.Fixit Flexi PU 270(I) highly flexible is a liquid-applied, highly permanent elastic, cold applied	170.00	191.27	285.73	191.27	225.00	1,063.27	SQM		
79	Supply, precast RCC trench cover of various size varying 1500 mm in length, 450 mm in width & 50 mm in thickness, with 3 mm thick 50mm wide, ms strip all around welded to the steel reinforcement bar of 6mm dia, 100 mm centre to centre & two no. hooks of 12 mm dia bar for lifting giving finishing top surface & grade of cement concrete M-20. (AR478)	2.00	10.00	10.00	10.00	12.00	44.00	SQM		
80	NRV Nozzles Installation: Drill and fix NRV nozzles in RC members, including (fixing material: Renderoc Plug of Fosroc / Sikadur-31 of Sika/ MasterBrace 2200 of BASF or equivalent of Pidilite& Krishna Conchem). Drilling Holes: Drilling 12 mm dia, 50 to 75 mm deep holes or upto required depth in structural members of the intervals of 350 mm in staggered manner or as directed by the Engineer-in-charge in RC structural elements. Cleaning of holes: Clean the holes by air blower prior to fixing nozzles. Fixing of Nozzles: Insert 12mm dia. NRV nozzles in cleaned holes. External end of nozzles to be machine to receive outlet of grouting gun. Fix it inside the holes by applying thyratrophic epoxy putty to ensure complete sealing. Cure the system for min. 12 hrs. Cutting of Nozzles: Cut the nozzles by chisel after completion of grouting without damaging structural elements.	220.00	473.00	325.00	473.00	310.00	1,801.00	Nos		

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		Part A	Part B	Part C	Part D	Part E				
81	Pressure Grouting with Epoxy Resin: Perform pressure grouting using Conbextra EP10, a low viscous solvent-free two-component epoxy resin with a density of 1050 kg/m³. Ensure the epoxy resin has viscosity < 0.6 poise (ASTM D1200), compressive strength > 80 MPa (ASTM D 695), and bond strength > 4 MPa (ASTM C882). Use products with CE marking and compliance according to Construction Products Directive 89/106/EEC. Mix epoxy resin components in required quantities as per manufacturer's instructions. Fill the grouting gun with epoxy resin and maintain desired pressure using an air compressor. Grout the material through prefixed nozzles in structural elements until refusal, sealing the nozzles with epoxy putty afterward. Monitor and seal leakages through other nozzles as required. Complete the operation within the pot life of the material. Clean the grouting gun and accessories with thinner after the operation to prevent jamming.	25.00	32.00	40.00	35.00	40.00	172.00	KG		
82	Providing and applying bond coat on the prepared surface with two component epoxy based bonding coat Nitobond EP of Fosroc make or equivalent, having specific gravity 1.15 to 1.2 gm/cc,. The bonding agent shall be applied by brush & should remain in tacky state after application for a minimum period of 5-6 hrs at 20 deg C & 2-3 hrs at 30 deg C. Laying of reinstatement polymer modified mortar or micro concrete shall be completed within the overlay time of bonding coat.	40.00	27.00	70.00	27.00	30.00	194.00	Sqm		
83	Construction of Horizontal and Vertical Seismic Band as per IS: 13925 by cutting chase in existing plaster by mechanical cutter, removing plaster, raking expose joints, cleaning, providing and fixing 3.25 mm dia (Gauge 10) Galvanised steel wire fabric mesh with spacing 25 mm x 25 mm to be fixed & firmly anchored to the surface of Brick masonry , stone masonry or concrete by means of GI steel shear key or bolts and tying the mesh to the bolts with GI binding wire including fixing the steel bars in position using epoxy resin anchor grout of approved make complete with cost of labour, tool & plants etc. complete as required for fixing as per direction of Engineer-in-charge.	75.00	55.00	218.00	60.00	330.00	738.00	Sqm		
84	Providing and Laying 110 mm dia PVC pipe (Heavy duty-working pressure 6Kg/cm2) of Prakash or equivalent make as per required slope for sewer line including jointing etc. complete as per direction of Engineer-in-charge (Wt. of pipe-22 Kg approx).	30.00	45.00	45.00	45.00	30.00	195.00	M		
85	P/F UPVC (SWR) pipes- 80mm dia	15.00	10.00	10.00	10.00	10.00	55.00	M		
86	P/F UPVC FLOOR TRAPS	5.00	5.00	5.00	5.00	5.00	25.00	Each		
87	P/F of CP jalli of appd design and shape: 100 mm dia. (AR522)	5.00	5.00	5.00	5.00	5.00	25.00	Each		
88	Providing and fixing on wall face unplasticised - PVC moulded fittings/accessories for unplasticised - Rigid PVC rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion. Bend 87.5°-110 mm bend. (12.42.5.2-AR180)	6.00	15.00	15.00	15.00	5.00	56.00	Each		
89	Providing and fixing on wall face unplasticised - PVC moulded fittings/accessories for unplasticised - Rigid PVC rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion. coupler- 110 mm. (12.42.1.2-AR174)	6.00	15.00	15.00	15.00	5.00	56.00	Each		
90	Providing and Fixing bevelled edge mirror of superior quality glass (Modi /Sant Gobain) complete with 6 mm thick hard board fixed to wooden cleats with cp brass screws and washers etc complete. (17.31-AR508)	1.85	1.85	1.85	1.85	1.85	9.25	Sqm		
91	Providing and fixing health faucet hindware or parryware make as per direction of EIC (Based on MR)	2.00	2.00	2.00	2.00	2.00	10.00	Each		
92	Providing and fixing C.P. brass angle valve for basin mixer and gyser points of approved quality conforming to IS:8931 a) 15 mm nominal bore : 15 mm nominal bore (18.53.1-AR423)	8.00	12.00	12.00	12.00	8.00	52.00	Each		
93	Providing and fixing uplasticised PVC connection pipe with brass unions: 45 cm length, 15 mm NB, (18.21.2.1-AR390)	8.00	8.00	8.00	8.00	8.00	40.00	Each		
94	Providing and fixing C.P. brass long body bib cock hindware/parryware conforming to IS standards and weighing not less than 690 gms: 15 mm nominal bore. (18.51.1-AR421)	8.00	6.00	6.00	6.00	2.00	28.00	Each		
95	Point wiring in PVC conduit, with modular type switch : Wiring for light point / fan point / exhaust fan point / call bell point with 1.5 sq.mm FR PVC insulated copper conductor single core cable in surface / recessed PVC conduit, with modular switch, modular plate, suitable G.I. box and earthing the point with 1.5 sq.mm. FR PVC insulated copper conductor single core cable etc as required. Group B	40.00	40.00	40.00	40.00	20.00	180.00	PNT		
96	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.15/16 A switch (DSR-1.24.3)	20.00	25.00	50.00	25.00	15.00	135.00	Each		

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		Part A	Part B	Part C	Part D	Part E				
97	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required 6 pin 15/16 A socket outlet Each (DSR- 1.24.5)	20.00	25.00	50.00	25.00	15.00	135.00	Each		
98	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required. 5/6 amps switch (AR582)	30.00	40.00	40.00	40.00	20.00	170.00	Each		
99	"P/F URINAL PARTITIONS 3/4" THK GRANITE 600 MMX1350 MM OF APPD DESIG AND SHADE INCLUDING FIXING IN THE WALLS AS REQUIRED BY CHASING & MAKING GOOD THE WALLS WHEREVER REQUIRED ALSO PROVIDING EDGE MOULDING TO THE GRANITE PARTITION COMPLETE JOB AS PER INSTRUCTION OF EIC.	2.00	2.00	2.00	2.00	2.00	10.00	SQM		
100	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 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 : 100x100mm size P type with common burnt clay F.P.S (non modular) bricks of class designation 75 (19.4.1.1-AR446)	3.00	3.00	3.00	3.00	3.00	15.00	Each		
101	Circuit/sub-main wiring in PVC conduit : Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of PVC insulated copper conductor, single core cable in surface/ recessed PVC conduit as required-2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	100.00	150.00	150.00	150.00	200.00	750.00	M		
102	Circuit / sub-main wiring in PVC conduit : Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of PVC insulated copper conductor, single core cable in surface/ recessed PVC conduit as required-2 X 4 sq. mm + 1 X 4 sq. mm earth wire.	50.00	75.00	75.00	75.00	150.00	425.00	M		
103	supply of 9" dia exhaust fan with gravity louers & bird screen	2.00	3.00	3.00	3.00	2.00	13.00	Each		
104	Providing and Laying 150 mm dia PVC pipe (Heavy duty-working pressure 6Kg/cm2) of Prakash or equivalent make as per required slope for sewer line including jointing etc. complete as per direction of Engineer-in-charge (Wt. of pipe-22 Kg approx).	50.00	70.00	70.00	70.00	50.00	310.00	M		
105	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) upto haunches of S.W. pipes including bed concrete as per standard design : 150 mm dia SW pipe, (19.3.2-AR444)	50.00	70.00	70.00	70.00	50.00	310.00	M		
106	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) Laying brick bats with mortar using broken bricks/brick bats 25mm to 115mm size with 50% of cement mortar 1:5 (1cement : 5coarse sand) admixed with water proofing compound conforming to IS: 2645 and approved by Engineer -in charge over 20 mm thick layer of cement mortar of mix 1:5 (1cement : 5coarse sand) admixed with water proofing compound conforming to IS: 2645 and approved by Engineer -in charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs. (b) After two days of proper curing applying a second coat of cement slurry using 2.75 kg/ sqm of cement admixed with water proofing compound conforming to IS: 2645 and approved by Engineer -in charge. (c) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1cement :4coarse sand) admixed with water proofing compound conforming to IS: 2645 and approved by Engineer-in-charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3 mm deep. (d) 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. With average thickness of 120 mm and minimum thickness at khurra as 65 mm	180.00	191.27	288.00	70.00	200.00	929.27	Sqm		

S.No.	Description	Quantities					Total Quantity	Unit	Rate in ₹ e/x GST	Amount in ₹ e/x GST
		Part A	Part B	Part C	Part D	Part E				
107	Provide and install sacrificial zinc anodes Fosroc Galvashield XPI, to prevent the initiation of corrosion in steel reinforcement within chloride-contaminated or carbonated concrete, or in new construction. Each anode unit must contain a minimum of 60 grams of zinc, compliant with ASTM B418-95a, Type I, die-cast around steel tie wires, ensuring proper separation if multiple tie wires are used. The anodes must be encapsulated in a highly alkaline cementitious mortar with a pH of 14 or higher, free from sulfates, chlorides, bromides, or any other corrosive elements to steel. The encapsulating mortar should feature an interconnected and fine pore structure to dissolve, transport, and accommodate zinc corrosion products away from the anode surface without causing additional stress to the concrete cover, maintaining a pH > 14 near the uncorroded zinc for the specified service life. Anode units shall be supplied with integral, well-separated tie wires (without splices if multiple wires are used) and loop ties for direct attachment to the reinforcing steel. Anodes should be covered with a bed mortar with resistivity less than 50 kOhm-cm or similar to the parent concrete on cleaned steel reinforcement before applying passivation coating. The scope includes supply, installation, spacing calculations, quality assurance procedures, and must adhere to manufacturer specifications. Approved brand shall be M/s Fosroc Galvashield Anodes/Vector Galvashield/IPSS	30.00	50.00	50.00	50.00	67.00	247.00	Nos		
108	Supply and apply Nitobond AR, an acrylic-based emulsified solution containing a minimum of 43% solids and compatible with cementitious materials. The bonding agent shall provide sufficient bond strength when applied directly on concrete or when mixed with neat cement. Ensure proper application to achieve effective adhesion between substrates and subsequent layers of cementitious materials, adhering to manufacturer's recommendations for optimal performance and durability in construction applications. Nitobond AR is particularly suitable when a longer working period after applying the bonding agent is required	20.00	120.00	120.00	120.00	200.00	580.00	Sqm		
110	Surface Preparation: Make a 'V' groove 5 mm wide and 5 mm deep over the crack line using an electrically operated angle grinder with a diamond concrete saw blade. Clean the groove thoroughly with an air blower as directed by the Engineer-in-charge.	20.00	65.00	65.00	65.00	150.00	365.00	M		
111	Sealing with Epoxy Repair Mortar: Seal the exposed 'V' groove (5 mm deep, 5 mm wide) with a solvent-free, moisture-tolerant, thixotropic, two-part structural adhesive and epoxy repair mortar cum surface leveling mortar. Ensure the epoxy repair mortar has compressive strength ≥ 60 N/mm ² (7 Days, BS 6319), flexural strength ≥ 20 N/mm ² (7 Days, BS 6319), and tensile strength ≥ 10 N/mm ² (7 days, ASTM C 307). Use products like NITOMORTAR S OF FOSROC, Sikadur®-31 of Sika, MasterBrace 2200 BASF, or equivalent of Pidilite.	20.00	65.00	65.00	65.00	200.00	415.00	M		
112	Supply and install reinforcement bars using Heavy Duty rebaring chemical Fosroc LOKFIX E77 for main bars and LOKFIX E45T for shear connectors, pure epoxy chemical anchor grout with ETA approval from DIBt, suitable for reinforcement bars ranging from 8 mm to 40 mm in diameter at specified embedment depths as per manufacturer's specifications. The epoxy chemical must have a working life period certified for 50 or 100 years as per ETA from DIBt, with properties including fire resistance tested to withstand 120 minutes (DIN EN 1363-1:2012, Technical Report TR 020), and must have water tightness certificate for "0" mm under 5 bar water pressure (EN 12390-8:2019). ETA approval from DIBt for Diamond Drilling is required, alongside LEED certification and compliance with LEED V4 standards (ISO 16000, EN 16516, CDPH 01350, ASTM D2369, EPA method 24). Rates shall encompass labor, tools and plants for power drilling in concrete, epoxy cartridges, plastic nozzles, and complete drilling holes with dust removal by air blowing. Additional charges apply for reinforcement bars. (Product :- Lockfix of Fosroc/ RE-500 of Hilti/ MasterFlow 935 AN of BASF/ Fischer/Wruth)						-			
113	a) Rebar 10 mm Dia x 14 mm holes x 100mm depth	20.00	50.00	50.00	50.00	80.00	250.00	Nos		
114	b) Rebar 12 mm Dia x 16 mm holes dia x 120 mm depth	10.00	20.00	20.00	20.00	40.00	110.00	Nos		
115	c) Rebar 16 mm Dia x 20 mm holes dia x 160 mm depth	5.00	10.00	10.00	10.00	20.00	55.00	Nos		
116	Strengthening: Carbon fibre wrap/Carbon Laminates						-			

S.No.	Description	Quantities					Total Quantity	Unit	Rate in ₹ e/x GST	Amount in ₹ e/x GST
		Part A	Part B	Part C	Part D	Part E				
117	<p>Providing and applying uni directional, high strength carbon fiber sheets Nitowrap CWS of 450 GSM/ dry fabric thickness.The FRP fabric used shall be of zero degree unidirectional fibers having fiber density of 1.8 g/cc and shall have tensile strength > 4900 MPa ; tensile modulus > 230 GPa and ultimate elongation of 2.1%. The substrate shall be primed with Nitowrap 30 epoxy primer & Nitowrap 410 impregnating resin saturant shall be used for saturating the fibers. Saturant used shall have tensile strength of >30 MPa; Elongation > 2% ; Flexural strength > 30 MPa ; Tensile Modulus > 2400 MPa & Flexural Modulus > 1700 MPa when tested as per ASTM D638 Type I and ASTM D 790 & Glass Transition Temperature > 50 deg Celcius as per ASTM E 1356.The adhesion of the entire system(FRP Sheet, Saturant and primer combined) with concrete shall be > 3.5 MPa with concrete failure as per ASTM D 4541.</p> <p>(Product :- Nitowrap CWS of 450 GSM of Fosroc, Sikawrap® 930 G of Sika / MasterBrace FIB 73/900 of BASF)</p> <p>Surface preparation: Grinding/ moulding concrete substrate cleaning it with wire brush removing oil, laitance if present, rounding sharp edges to min 25mm radius etc. complete.</p> <p>Profiling : Applying compatible primer of approved make and brand on prepared substrate, filling the holes and uneven surface with thixotropic putty etc. complete.</p> <p>Wrapping : Wrapping the fiber sheet with recommended overlapping to structural element at desired orientation using tamping roller to avoid any air voids etc. repeat the same procedure for multiple layer with the interval of 8 hrs.</p> <p>Sand Pasting : Applying second coat of saturated after 12 hrs. rectify air voids if any, paste the coarse sand on it to make surface rough to take any further finishes</p> <p>(Mode of measurement : Per sqm surface area of application)</p>	7.50	15.30	1.00	15.30	65.00	104.10	SQM		
118	Supply and install fiber anchors to be embedded at a depth of 75 mm with 75 mm protrusion, spaced at 500 mm center to center. (Product make: Fosroc/ Sika/ BASF)	10.00	50.00	50.00	50.00	80.00	240.00	Nos		
119	PU Grout to arrest water leakage						-			
120	Water-stopping crack injection resin foam shall be Nitofill WS60, a two-part foaming liquid polyurethane. When mixed in the supplied proportions and injected into concrete cracks, the resin reacts with moving water to create a foam barrier that stops water infiltration. The resin's properties include a pot life of 6-8 hours at 20°C, specific gravity of 1.11 ± 0.03, and foam density of 0.024g ± 0.003. Used alongside Nitofill UR63, a flexible two-part polyurethane injection resin, it ensures a permanent seal in cracked concrete. Nitofill UR63 is a solvent-free liquid polyurethane that, when mixed and injected into cracks, forms a slightly flexible and impermeable barrier in dry and damp conditions. This polyurethane system features a pot life of 60 to 80 minutes at 25°C, reaction time of 70 to 90 minutes at 25°C, viscosity of 40-60 cps at 25°C, and specific gravity of 1.1. When combined with Nitofill WS60, the foaming polyurethane resin, it guarantees a durable seal in cracked concrete.						-			
121	Nitofill WS60	3.00	10.00	5.00	10.00	26.00	54.00	Kg		
122	Nitofill UR63	3.00	10.00	5.00	10.00	27.00	55.00	Kg		
123	Exposed surface area painting						-			
124	Supply and apply Dekguard E2000, a high-performance elastomeric protective anticarbonation coating for concrete and masonry. The protective coating system includes a penetrating silane-siloxane primer (Dekguard Primer) and a single-component elastomeric anticarbonation aliphatic acrylic coating (Dekguard E2000). Ensure the total dry film thickness of the protective coating system is not less than 200 microns. The coating system shall provide CO2 diffusion resistance of at least 50 meters (equivalent air layer thickness), static crack accommodation of minimum 2mm, and adhesion greater than 1.0 N/mm² as per ASTM D 4541. The product used must meet specified performance standards for durability and protection against carbonation. Apply in accordance with manufacturer's guidelines to ensure effective long-term performance and adherence to project requirements	36.10	60.00	40.00	60.00	135.00	331.10	Sqm		
125	Providing, cutting and laying SWG10 welded wire mesh and mesh size 50x50 mm including anchoring it on the wall with 4.75mm bar by drilling and fixing with cement slurry as per drawing details, specification and instruction by the Engineer.	10.00	60.00	40.00	60.00	120.00	290.00	Sqm		

S.No.	Description	Quantities					Total Quantity	Unit	Rate in ₹ e/x GST	Amount in ₹ e/x GST
		Part A	Part B	Part C	Part D	Part E				
126	Provide and apply single-component, free-flowing, non-shrink cementitious microconcrete at a water-to-powder ratio of 0.15. The microconcrete should have a fresh wet density of 2200 kg/m³ at 27°C and an unrestrained expansion of 1 to 4% as per ASTM C827. It must achieve a flowable consistency and compressive strength of not less than 10 N/mm² after 24 hours, 35 N/mm² after 7 days, and 45 N/mm² after 28 days at 30°C. The cured microconcrete shall be free from metallic aggregates and chlorides, and it must be shrinkage-compensated in the plastic state. Payment will be based on the consumed dry material of the microconcrete mix (Product :- Renderoc RG 45 of Fosroc/ SikaRep® Microcrete -4 of Sika / MasterEmaco S-346 of BASF or equivalent of Pidilite)									
127	a) Without addition of aggregate	0.10	0.27	0.10	1.00	1.50	2.97	TON		
128	b) With addition of 6 mm down aggregate in 3:1 (3 Micro concrete: 1 aggregate 6 mm & down)	0.10	0.27	0.10	1.00	1.50	2.97	TON		
129	12mm ready mix cement plaster - Ready mix cement plaster/ render with high quality polymer additives, special binders, well graded sand and fillers can be applied on brick & block masonry for both external and internal plastering works.(UltraTech Readiplast / Fosroc)	34.50	87.24	254.27	85.00	85.00	546.01	SQM		
130	15mm ready mix cement plaster - Ready mix cement plaster/ render with high quality polymer additives, special binders, well graded sand and fillers can be applied on brick & block masonry for both external and internal plastering works.(UltraTech Readiplast / Fosroc)	10.00	41.00	308.12	66.00	70.00	495.12	SQM		
131	6mm ready mix cement plaster - Ready mix cement plaster/ render with high quality polymer additives, special binders, well graded sand and fillers can be applied on brick & block masonry for both external and internal plastering works.(UltraTech Readiplast / Fosroc)	42.00	9.00	30.00	12.00	60.00	153.00	SQM		
132	Openable -WINDOW, TYPE: GALVANIZED IRON STEEL PRE PAINTED; MATERIAL: GALVANIZED IRON STEEL PRE PAINTED;; WITH GLASS OF 5MM THICKNESS; MODEL: ECO 3000 SERIES; MAKE: NCL; DIMENSION AS PER SITE CONDITION; SPECIAL FEATURES: OPENABLE; Providing and fixing Eco 3000 Series Windows fabricated from roll formed sections made of Galvanized Steel Colour Coated/Powder Coated (Base Steel as per IS 513 "D" quality, Galvanized as per IS 277 with Zinc of 120 grams/Sq. Mtr.) with total coated thickness of 0.60 mm. Coated Sections should be with Primer Coat of Epoxy Primer of 5-7 microns thick, finish painted with Polyester Paint of 12-16 microns thick and back coated with Alkyd backer of 5-7 microns, or Powder Coated with pure Polyester Powder up to 50-60 microns thick. Section for frame should be 48mm x 50mm, Section for Mullion should be of 48mm x 50mm, Section for Glazed Shutter Frame should be of 47mm x 20mm, and Section for Fixed Glass Bead should be of 12mm x 12mm. Frame and Shutter Frame Sections should be cut to length and metre joined with Polypropylene Corner Brackets. Mullion Section should be joined with Frame/Mullion using Nylon Mullion Cap. Ethyl Propylene Diamine Monomer (EPDM) Gasket should be used all around glass in shutter. Each Glazed Shutter should be provided with S.S. Pivot Hinges-1 set, Seccolor Handle & Seccolor Stay. Window Frame should be fixed to brick/concrete masonry by using Nylon self expanding caps and driving MS electroplated 80mm long screws into the caps through frames. (after fixing the windows, gap shall be filled up by silicon sealant, gaps more than 5mm shall be filled with backer rod of approved quality). Glass shutter & Fixed Glass portions should be provided with a glass of 5MM Plain Float Glass. Windows should be provided with Grill made of 10mm sq. MS Bars welded to at 150mm center-to-center, 6mm	2.60	6.00	16.50	12.50	8.00	45.60	SQM		

S.No.	Description	Quantities					Total Quantity	Unit	Rate in ₹ e/x GST	Amount in ₹ e/x GST
		Part A	Part B	Part C	Part D	Part E				
133	Fixed - WINDOW, TYPE: GALVANIZED IRON STEEL PRE PAINTED; MATERIAL: GALVANIZED IRON STEEL PRE PAINTED;; WITH GLASS OF 5MM THICKNESS; MODEL: ECO 3000 SERIES; MAKE: NCL; DIMENSION AS PER SITE CONDITION; SPECIAL FEATURES: FIXED; Providing and fixing Eco 3000 Series Windows fabricated from roll formed sections made of Galvanized Steel Colour Coated/Powder Coated (Base Steel as per IS 513 "D" quality, Galvanized as per IS 277 with Zinc of 120 grams/Sq. Mtr.) with total coated thickness of 0.60 mm. Coated Sections should be with Primer Coat of Epoxy Primer of 5-7 microns thick, finish painted with Polyester Paint of 12-16 microns thick and back coated with Alkyd backer of 5-7 microns, or Powder Coated with pure Polyester Powder up to 50-60 microns thick. Section for frame should be 48mm x 50mm, Section for Mullion should be of 48mm x 50mm, Section for Glazed Shutter Frame should be of 47mm x 20mm, and Section for Fixed Glass Bead should be of 12mm x 12mm. Frame and Shutter Frame Sections should be cut to length and metre joined with Polypropylene Corner Brackets. Mullion Section should be joined with Frame/Mullion using Nylon Mullion Cap. Ethyl Propylene Diamine Monomer (EPDM) Gasket should be used all around glass in shutter. Each Glazed Shutter should be provided with S.S. Pivot Hinges-1set, Seccolor Handle & Seccolor Stay. Window Frame should be fixed to brick/concrete masonry by using Nylon self expanding caps and driving MS electroplated 80mm long screws into the caps through frames. (after fixing the windows, gap shall be filled up by sellicon sealant, gaps more than 5mm shall be filled with backer rod approved). Glass shutter & Fixed Glass portions should be provided with a glass of 5MM Plain Float Glass. Windows should be provided with Grill made of 10mm sq. MS Bars welded to at 150mm center-to-center, 6mm x 12mm	2.30	3.00	16.50	10.50	4.00	36.30	SQM		
134	Providing and laying of average 75mm thick (or suitable thickness for necessary slope) concrete screed of minimum M 20 grade concrete.	15.00	14.00	15.00	14.00	215.00	273.00	SQM		
135	Felling trees of the girth (measured at a height of 1 m above ground level), including cutting of trunks and branches, removing the roots and stacking of serviceable material and disposal of unserviceable material. Beyond 30 cm girth upto and including 60 cm girth	8.00	9.00	8.00	7.00	6.00	38.00	Each		
136	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centring, shuttering, finishing and reinforcement - All work upto plinth level-1:1.5:3 (1 Cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	15.00	15.00	95.00	10.00	12.00	147.00	CUM		
137	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface : Water thinnable cement primer	25.00	24.00	35.00	48.00	53.00	185.00	SQM		
138	Providing and fixing false ceiling at all heights with integral densified calcium silicate reinforced with fibre and natural filler false ceiling tiles of Size 595x595mm of approved texture, design and patterns as per CPWD Specification 2019, to be laid in true horizontal level suspended on inter-locking metal T-Grid of hot dipped galvanized iron section of 0.33mm thick (galvanized @ 120 grams per sqm including both sides) comprising of main-T runners of size 24x38 mm of length 3000 mm, cross - T of size 24x32 mm of length 1200 mm and secondary intermediate cross-T of size 24x32 mm of length 600mm to form grid module of size 600 x 600 mm, suspended from ceiling using galvanized mild steel items (galvanizing @ 80 grams per sqm) i.e. 12x50 mm long dash fasteners, 6 mm dia fully threaded hanger rod upto 1000 mm length and L-shape level adjuster of size 76x25x25x1.6 mm fixed with grid and Z cleat of size 25x37x25x1.6mm thick with precut hole on both 25mm flange to pierce into 12x50mm or even bigger size dash fastener if require, fixed with Galvanized iron perimeter wall angle or size 24x24x0.40 mm of length 3000 mm to be fixed on periphery wall / partition with the help of plastic rawl plugs at 450mm center to center and 40 mm long dry wall S.S screws. The work shall be carried out as per specifications, drawing and as per directions of the Engineer-in Charge. With 15 mm thick tegular/butt edged without perforation plain/designer light weight calcium silicate Anti-Microbial Bio-Safe coated false ceiling tiles Confirming to JIS-Z2801 and ASTM G-21	100.00	50.00	150.00	150.00	70.00	520.00	SQM		
139	Drilling and fixing NRV injection packers in RC members for Epoxy or PU Injection including, drilling holes in structural members at the intervals as per recommendations/ requirements, cleaning the holes by air blower prior to fixing nozzles. Insert 12 mm dia., 50-75 mm long injection packers in cleaned holes with solvent free, moisture insensitive epoxy resin based putty or equivalent. Cut the packers by cut of wheel after completion of grouting without damaging structural elements.	200.00	150.00	471.00	175.00	695.00	1,691.00	Nos		

S.No.	Description	Quantities					Total Quantity	Unit	Rate in ₹ e/x GST	Amount in ₹ e/x GST
		Part A	Part B	Part C	Part D	Part E				
140	Providing and laying of average 75mm thick (or suitable thickness for necessary slope) concrete screed of minimum M 20 grade concrete.	200.00	150.00	25.00	25.00	25.00	425.00	SQM		
141	Supply and apply Concre WB White, a water-based concrete curing compound, to prevent premature water loss from freshly placed concrete. Ensure complete coverage of all exposed concrete surfaces according to manufacturer's recommendations for effective curing and hydration, promoting optimal strength development and durability of the concrete structure	200.00	150.00	50.00	50.00	48.00	498.00	SQM		
142	Surface Preparation: Make a 'V' groove 5 mm wide and 5 mm deep over the crack line using an electrically operated angle grinder with a diamond concrete saw blade. Clean the groove thoroughly with an air blower as directed by the Engineer-in-charge.	80.00	75.00	65.00	65.00	60.00	345.00	M		
143	Supply & Installation of 46mm thick Metal fire check door of 120 minutes' fire rating conforming to BS: 476 Part 22 and IS: 3614 Part II fabricated with 2 nos. 1.2mm thick galvanized sheet with infill of fire rated Acrylic Sealant and non-combustible core bonded to both faces of sheet with lock seam joints at stile edges and internal reinforcement at top, bottom and stile edges for Fire Rating. The door frames are manufactured from 1.6mm thick galvanized steel sheet pressed form to double rebate profile of size 143mm x 57mm duly filled with vermiculite based concrete mix. The door frames and door shutters are finished with powder coated Smoke grey finish.(as per approved shade) with all fittings.			43.20	-		43.20	SQM		
144	Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid decorative type 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 ² , modulus of elasticity 850 N/mm ² and resistance to spread of flame of Class A category with property of being termite/borer proof, water/moisture proof and fire retardant. WPC to be laminated with PVC foil of minimum 14 microns thick of approved design pasted with hot melt adhesive on both faces of shutter and fixing with stainless steel butt hinges of required size with necessary full body threaded star headed counter sunk S.S screws, all as per direction of Engineer-In-Charge. (Note: stainless steel butt hinges and necessary S.S screws shall be included) 30 mm thick	20.00	25.00	50.00	28.00	27.00	150.00	SQM		
145	Providing and fixing pressed steel door frames conforming to IS: 4351, manufactured from commercial mild steel sheet of 1.60 mm thickness, including hinges, jamb, lock jamb, bead and if required angle threshold of mild steel angle of section 50x25 mm, or base ties of 1.60 mm, pressed mild steel welded or rigidly fixed together by mechanical means, including M.S. pressed butt hinges 2.5 mm thick with mortar guards, lock strike-plate and shock absorbers as specified and applying a coat of approved steel primer after pre-treatment of the surface as directed by Engineer-in-charge:	50.00	30.00	50.00	25.00	30.00	185.00	M		
146	Trimming of any no. of branches of any size of any type of tree overhanging on building / terrace so as to keep them away from building by at least 2.00 mtr at the time of trimming in such a way that they do not fall on the bldg, terrace, GI/ACC shed, live transformer, electric/telephone wire by any means Use axe, saw, ropes etc. as per site conditions. The trimmed material to be disposed to the MCD bin by any means. Nothing shall be allowed to be burnt or flamed. (AR494)	5.00	6.00	7.00	5.00	6.00	29.00	Each		
147	Providing and injecting approved ultra low viscous, solvent free high strength epoxy resin conforming to ASTM C 881 into cracks/ honey-comb area of concrete/ masonry by suitable gun/ pump at required pressure as per directions of Engineer-in-Charge.	70.00	65.00	75.00	85.00	120.00	415.00	KG		
148	Providing, mixing and applying bonding coat of approved adhesive on chipped portion of RCC as per specifications and direction of Engineer-in-charge	50.00	65.00	50.00	40.00	100.00	305.00	SQM		
149	Providing and fixing on wall face unplasticised - Rigid PVC rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion. (i) Single socketed pipes: 110 mm diameter (12.41.2-AR172)	25.00	35.00	30.00	35.00	90.00	215.00	M		
150	Providing and fixing on wall face unplasticised - PVC moulded fittings/accessories for unplasticised - Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion: shoe (plain) 110 mm. (12.42.6.2-AR182)	5.00	5.00	5.00	5.00	10.00	30.00	Each		

S.No.	Description	Quantities					Total Quantity	Unit	Rate in ₹ e/x GST	Amount in ₹ e/x GST
		Part A	Part B	Part C	Part D	Part E				
151	Constructing brick masonry manhole in cement mortar 1:4 (1 cement:4 coarse sand) RCC top slab with 1:2:4 mix (1 cement: 2 coarse sand: 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement: 4 coarse sand: 8 graded stone aggregate 40mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1cement: 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4(1 cement: 2 coarse sand: 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design : Inside size 90x80cm and 45cm deep including CI cover with frame(light duty) 455x610mm internal diamensions, total weight of cover and frame to be not less than 38kg (weight of cover 23kg and weight of frame 15kg) With common burnt clay F.P.S (non modular) bricks with class designation 7.5 (19.7.1.1-AR449)	1.00	1.00	1.00	1.00	1.00	5.00	Each		
Total Cost e/x GST@18% of Package V										-

ATTACHMENT-VI

PACKAGE-VI-Price Breakup

PART-A- Retrofitting work at Fountain Grid Chandni Chowk.

PART-B-Retrofitting work at 33KV Prasad Nagar Grid.

S.No.	Description	Quantities			Unit	Rate (In Rs.) e/x GST	Amount (In Rs.) e/x GST
		PART A	PART B	Total Quantities			
1	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 disposal of excavated earth, lead upto 50 m and lift upto 1.5 m, disposed earth to be levelled and neatly dressed : All kinds of soil.	12.00	5	17	CUM		
2	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of engineer in charge. Nominal concrete: 1:3:6 or richer mix (i/c equivalent design mix)	14.00	36	50	CUM		
3	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge.	6.00	3	9	CUM		
4	Extra for cutting reinforcement bars manually/ by mechanical means in R.C.C. or R.B. work (Payment shall be made on the cross sectional area of R.C.C. or R.B. work) as per direction of Engineer in-charge.	3.00	3	6	SQM		
5	Demolishing brick work manually /by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-In-charge.: In cement mortar	4.00	2	6	CUM		
6	Dismantling steel work in built up sections in angles, tees, flats and channels including all gusset plates, bolts, nuts, cutting rivets, welding etc. including dismembering and stacking within 50 m lead.	200.00	300	500	KG		
7	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead:For thickness of tiles 10 mm to 25 mm	85.00	85	170	SQM		
8	Dismantling stone slab flooring laid in cement mortar including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	8.00	0	8	SQM		
9	Demolishing mud phaska in terracing and disposal of material within 50 metres lead (15.27-AR282)	9.00	45	54	CUM		
10	Dismantling roofing including ridges, hips valleys and gutters etc., and stacking the material within 50 metres lead of: G.S. Sheet	60.00	30	90	SQM		
11	Dismantling old plaster or skirting, raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	1200.00	310	1510	SQM		
12	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	56.00	105	161	CUM		
13	Supplying and spreading uniformly in yard of grid s/stn. blue stone aggregate 20 mm single size of good quality i/c loading, unloading for all leads & lifts complete, as per direction of Engineer in charge.	16.00	12	28	CUM		
14	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	22.00	9	31	CUM		
15	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in cement mortar 1 : 4 (1 cement : 4 coarse sand)	4.50	3	7.5	CUM		
16	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : Cement mortar 1:4 (1 cement : 4 coarse sand)	18.00	4	22	CUM		

S.No.	Description	Quantities			Unit	Rate (In Rs.) e/x GST	Amount (In Rs.) e/x GST
		PART A	PART B	Total Quantities			
17	Providing and laying in position ready mixed or site batched design mix cement concrete for plain cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland pozzolana/Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering and finishing as per direction of the engineer-in-charge; for the following grades of concrete (make- ACC, Lafarage, Afcon, Ultra Tech).Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 110% of the minimum specified cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement.All works above plinth and upto floor V level : Concrete of M25 grade with minimum cement content of 300 kg /cum	9.00	0	9	CUM		
18	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:1½:3 (1 Cement: 1½ coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	6.00	4.5	10.5	CUM		
19	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:4:8 (1 Cement : 4 coarse sand (zone-III) derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources)	12.00	23	35	CUM		
20	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centring, shuttering, finishing and reinforcement - All work upto plinth level-1:1.5:3 (1 Cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	2.50	2	4.5	CUM		
21	Reinforced cement concrete work in beams, suspended floors, roofs having slope upto 15°, landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases upto floor five level excluding the cost of centring, shuttering, finishing and reinforcement with 1:1.5:3 (1 Cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	6.00	2.5	8.5	CUM		
22	Centring and shuttering including strutting, propping etc. and removal of form work for : Foundations, footings, bases of columns.	35.00	22	57	SQM		
23	Centring and shuttering including strutting, propping etc. and removal of form for: Suspended floors, roofs, landings, balconies and access platform	60.00	16	76	SQM		
24	Reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete. cold twisted bars	1600.00	580	2180	KG		
25	Add for plaster drip course/groove in plastered surface or moulding to R.C.C. projections	11.00	0	11	M		
26	12 mm cement plaster of mix: 1:4 (1 cement : 4 coarse sand)	230.00	110	340	SQM		
27	15 mm cement plaster on rough side of single or half brick wall of mix 1:4 (1 cement : 4 coarse sand)	220.00	95	315	SQM		
28	6 mm cement plaster of mix : 1:3 (1 cement: 3 fine sand)	60.00	16	76	SQM		
29	Neat cement punning	390.00	350	740	SQM		
30	Extra for providing and mixing water proofing material in cement plaster work in proportion recommended by the manufacturers.(Per Bag of 50 KG cement used in the mix)	25.00	25	50	Each		
31	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.	25.00	150	175	SQM		
32	Removing dry or oil bound distemper water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	1725.00	1170	2895	SQM		
33	Raking out joints in lime or cement mortar and preparing the surface for re-pointing or replastering, including disposal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge.	390.00	0	390	SQM		

S.No.	Description	Quantities			Unit	Rate (In Rs.) e/x GST	Amount (In Rs.) e/x GST
		PART A	PART B	Total Quantities			
34	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	1700.00	1020	2720	SQM		
35	Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade. New work (two or more coats) over and including water thinnable priming coat with cement primer	20.00	25	45	SQM		
36	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)	25.00	150	175	SQM		
37	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade :Two or more coats on new work	1700.00	1020	2720	SQM		
38	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade. Two or more coats on new work.	380.00	185	565	SQM		
39	Washed stone grit plaster on exterior walls of height upto 10 metre above ground level, in two layers, under layer 12mm cement plaster 1:4 (1cement: 4 coarse sand), furrowing the under layer with scratching tool, applying cement slurry on the under layer @ 2 Kg of cement per square metre, top layer 15mm cement plaster 1:1/2:2 (1 cement: 1/2 coarse sand :2 stone chipping 10mm nominal size), in panels with groove all around as per approved pattern, including scrubbing and washing the top layer with brushes and water to expose the stone chippings, complete as per specification and direction of Engineer-in- charge (Payment for providing grooves shall be made separately).	780.00	505	1285	SQM		
40	Forming groove of uniform size in the top layer of washed stone grit plaster as per approved pattern using wooden battens,nailed to the under layer including removal of wooden battens, repair to the edges of panels and finishing the groove complete as per specification and direction of the Engineer-In-Charge. 15 mm wide and 15 mm deep groove (13.73.1-AR225)	1950.00	1080	3030	M		
41	Extra for using silver cement in place of ordinary cement in the top layer of the item of washed stone grit plaster.	780.00	505	1285	SQM		
42	Extra for providing & mixing the dark shade pigment in top layer of washed stone grit plaster.	780.00	505	1285	SQM		
43	Extra for using Dholpur/Jaisalmer stone grit inplace of ordinary grit	780.00	505	1285	SQM		
44	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete with base of cement mortar 1:4 (1cement : 4 coarse sand) : 25 mm thick	12.00	26	38	SQM		
45	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12mm (average) thick cement mortar 1:3 (1cement : 3coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.	4.00	5	9	SQM		
46	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), Jointing with grey cement slurry @ 3.3 kg/sqm including pointing the joints with white cement and matching pigment etc.,complete.	18.00	32	50	SQM		
47	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600 mm	18.00	30	48	SQM		

S.No.	Description	Quantities			Unit	Rate (In Rs.) e/x GST	Amount (In Rs.) e/x GST
		PART A	PART B	Total Quantities			
48	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	60.00	105	165	SQM		
49	52 mm thick cement concrete flooring with concrete hardener topping, under layer 40 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and top layer 12 mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate 6 mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufacturer's specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete.	70.00	225	295	SQM		
50	Cement plaster skirting (upto 30 cm height) with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement. 18 mm thick	6.00	12	18	SQM		
51	Providing and fixing glass strips in joints of terrazzo/cement concrete floors. - 40 mm wide and 4 mm thick.	185.00	450	635	M		
52	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	850.00	1150	2000	KG		
53	Providing and fixing T-iron frames for doors, windows and ventilators of mild steel Tee-sections, joints mitred and welded, welded, including fixing of necessary butt hinges and screw and applying a priming coat of approved steel primer. Fixing with 15x3 mm lugs 10cm long embedded in cement concrete blocks 15x10x10 cm of 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size. (10.13-AR132)	160.00	150	310	KG		
54	Providing/fixing by welding (IRC fabric) welded mesh of size 25x75 mm of weight not less than 7.75 kg/ sqm to the frame of MS angles, tees, etc. including priming coat of approved brand. (AR85)	240.00	280	520	KG		
55	Providing and fixing by welding 65 mm size M.S. Hinges made out of 5mm thick M.S. sheet i/c nuts, bolts etc. complete to M.S. angles/channels as approved by Engineer-In-Charge . The cost is inclusive of material, cartage, welding etc. complete job.(AR489)	36.00	38	74	Each		
56	Providing and fixing M.S. Sheet of required thickness to M.S frames by welding. (The cost includes the cost of M.S. sheet, cutting, straightening, labour, cartage, welding rods, hire charges of welding machine etc. complete) as per direction of Engineer-In-Charge. (AR87)	220.00	250	470	KG		
57	P/F MS chequered plate i/c cutting, straightening, rounding of edges, making holes, making lifting arrangement & fixing by welding to M.S angle frame etc.	250.00	0	250	KG		
58	Removing of damaged / broken / twisted IRC welded mesh fencing panels repairing of damaged / broken members , replacing new members if required, setting right the fencing panel in proper shape and size as per site requirement, re-fixing of panel at old location / new location in proper position and required alignment, Rate includes the cost of all labour , T & P , welding rods, welding machine, etc complete. The cost of structural steel and nut bolts, washers, IRC welded Mesh etc., if required will be paid separately.	85.00	60	145	SQM		
59	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required: White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	1.00	1	2	Each		
60	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including W.C. pan with ISI marked white solid plastic seat and lid	1.00	1	2	Each		

S.No.	Description	Quantities			Unit	Rate (In Rs.) e/x GST	Amount (In Rs.) e/x GST
		PART A	PART B	Total Quantities			
61	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm and 340x410x265 mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required : One urinal basin with 5 litre white P.V.C. automatic flushing cistern	4.00	2	6	Each		
62	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require: White Vitreous China Flat back wash basin size 550x 400 mm with single 15 mm C.P. brass pillar tap	2.00	1	3	Each		
63	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. Flexible pipe- 32 mm dia	6.00	3	9	Each		
64	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. 20 mm nominal dia Pipes (Internal work - Exposed on wall)	40.00	20	60	M		
65	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. 20 mm nominal dia Pipes (Concealed work, including cutting chases and making good the walls etc.)	45.00	25	70	M		
66	Providing and fixing brass bib cock of approved quality : 20 mm nominal bore	2.00	2	4	Each		
67	Providing and fixing brass stop cock of approved quality : 20 mm nominal bore	6.00	3	9	Each		
68	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet : 150 mm diameter	2.00	1	3	Each		
69	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	500.00	500	1000	PER LITRE		
70	Circuit / sub-main wiring in PVC conduit : Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of PVC insulated copper conductor, single core cable in surface/ recessed PVC conduit as required-2 X 4 sq. mm + 1 X 4 sq. mm earth wire.	28.00	28	56	M		
71	Circuit/sub-main wiring in PVC conduit : Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of PVC insulated copper conductor, single core cable in surface/ recessed PVC conduit as required-2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	20.00	20	40	M		
72	Circuit/sub-main wiring in PVC conduit : Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of PVC insulated copper conductor, single core cable in surface/ recessed PVC conduit as required-2 X 6 sq. mm + 1 X 6 sq. mm earth wire	10.00	10	20	M		
73	Point wiring in PVC conduit, with modular type switch : Wiring for light point / fan point / exhaust fan point / call bell point with 1.5 sq.mm FR PVC insulated copper conductor single core cable in surface / recessed PVC conduit, with modular switch, modular plate, suitable G.I. box and earthing the point with 1.5 sq.mm. FR PVC insulated copper conductor single core cable etc as required. Group C (AR559)	12.00	12	24	Each		
74	P/F/T/C 6/16A 5 pin modular socket controlled by 16 A switch.(complete set modular). (AR693)	4.00	4	8	Each		
75	Providing, Fixing, Testing & Commissioning Of 3nos 6A 5pin socket & 1no 6A switch in 5 module plate. (AR760)	3.00	3	6	Each		

S.No.	Description	Quantities			Unit	Rate (In Rs.) e/x GST	Amount (In Rs.) e/x GST
		PART A	PART B	Total Quantities			
76	S / F light plug point modular type accessories : Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection. painting etc. as required. (For light plugs to be used in non residential buildings). (AR593)	12.00	12	24	Each		
77	S / F power plug point modular type accessories : Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 15 / 16 & 5 / 6 amps modular socket outlet and 15 / 16 amps modular switch, connection, painting etc. as required. (AR594)	8.00	8	16	Each		
78	Supplying and fixing following rating, four pole, 415 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required. 63 Amps. (AR617)	3.00	3	6	Each		
79	S / F 'C' series. SP MCB : Supplying and fixing 5 amps to 32 amps rating, 240 volts. 'C' series, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. : Single pole (AR787)"	12.00	12	24	Each		
80	Providing and fixing tube light 40 watt PHILIPS make TMC 17 / 136 HPE complete job.	16.00	16	32	Each		
81	Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 metre openable length (total length 90 m), having 50 nos rounds per 6 metre length, upto 3 m height of wall with existing angle iron 'Y' shaped placed 2.4m or 3.00 m apart and with 9 horizontal R.B.T. reinforced barbed wire, stud tied with G.I. staples and G.I. clips to retain horizontal, including necessary bolts or G.I. barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape(R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mm with tape (0.52 mm thick) and weight 43.478 gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately)	60.00	60	120	M		
82	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with line sand etc. all complete as per the direction of Engineer-in-charge.	18.00	0	18	SQM		
83	Providing and fixing 60 cm long PVC rain water spout in proper line and level in cement mortar 1:4 (1 cement : 4 fine sand) in the existing khurra level, dismantling wall/ pipe and making hole of required size for fixing of pipe, filling CC 1:3:6 (1cement :3 coarse sand : 6 graded stone aggregate 20mm nominal size) between wall and pipe, plastering both sides of walls with cement mortar 1:4 (1 cement :4 fine sand)and making the pipe joint leak proof.	2.00	20	22	Each		
84	Providing and fixing on wall face unplasticised - Rigid PVC rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion. (i) Single socketed pipes: 110 mm diameter (12.41.2-AR172)	42.00	40	82	M		
85	Providing and fixing on wall face unplasticised - PVC moulded fittings/accessories for unplasticised - Rigid PVC rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion. Bend 87.5°-110 mm bend. (12.42.5.2-AR180)	26.00	30	56	Each		
86	Providing and fixing unplasticised- PVC pipe clips of approved design to unplasticised- PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length including cutting brick work and fixing in cement mortar 1:4 (1cement : 4 coarse sand) and making good the wall etc. complete. 110 mm (12.43.2-AR184)	66.00	65	131	Each		
87	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement :2 coarse sand : 4 graded stone aggregate of 10 mm and down gauge) including finishing with cement mortar 1:3 (1 cement: 3 fine sand) as per standard design : In 75 x75 mm deep chase	120.00	98	218	M		
88	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 m x1 m x 400 micron, finished with 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.	8.00	10	18	Each		

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		PART A	PART B	Total Quantities			
89	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by 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.	15.00	35	50	SQM		
90	Providing and fixing double scaffolding system (cup lock type) on the exterior side of building/ structure, upto 25 metre height, above ground level including additional rows of scaffolding in stepped manner as per requirement of site, made with 40mm dia. M.S. tube 1.5 m centre to centre horizontal & vertical tubes joining with cup & lock system with M.S. tubes, M.S. tube challis, M.S. clamps and staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for execution of work of cleaning and / or pointing and/ or applying chemical and removing it thereafter. The scaffolding system shall be stiffened with bracings, runners, connection with the building etc, wherever required, if feasible, for inspection of work at required locations with essential safety features for the workmen etc. complete as per directions and approval of Engineer-in-charge .The elevational area of the scaffolding shall be measured for payment purpose .The payment will be made once only for execution of all items for such works.	25.00	10	35	SQM		
91	Fixed -WINDOW, TYPE:GALVANIZED IRON STEEL PRE PAINTED; MATERIAL:GALVANIZED IRON STEEL PRE PAINTED;; WITH GLASS OF 5MM THICKNESS; MODEL: ECO 3000 SERIES; MAKE: NCL; DIMENSION AS PER SITE CONDITION; SPECIAL FEATURES: FIXED;Providing and fixing Eco 3000 Series Windows fabricated from roll formed sections made of Galvanized Steel Colour Coated/Powder Coated (Base Steel as per IS 513 "D" quality, Galvanized as per IS 277 with Zinc of 120 grams/Sq. Mtr.) with total coated thickness of 0.60 mm. Coated Sections should be with Primer Coat of Epoxy Primer of 5-7 microns thick, finish painted with Polyester Paint of 12-16 microns thick and back coated with Alkyd backer of 5-7 microns, or Powder Coated with pure Polyester Powder up to 50-60 microns thick.Section for frame should be 48mm x 50mm, Section for Mullion should be of 48mm x 50mm, Section for Glazed Shutter Frame should be of 47mm x 20mm, and Section for Fixed Glass Bead should be of 12mm x 12mm.Frame and Shutter Frame Sections should be cut to length and metre joined with Polypropylene Corner Brackets. Mullion Section should be joined with Frame/Mullion using Nylon Mullion Cap. Ethyl Propylene Diamine Monomer (EPDM) Gasket should be used all around glass in shutter.Each Glazed Shutter should be provided with S.S. Pivot Hinges-1set, Seccolor Handle & Seccolor Stay.Window Frame should be fixed to brick/concrete masonry by using Nylon self expanding caps and driving MS electroplated 80mm long screws into the caps through frames. (after fixing the windows, gap shall be filledup by sellicon sealant , gaps more than 5mm shall be filled with backer rod approved).Glass shutter & Fixed Glass portions should be provided with a glass of 5MM Plain Float Glass.Windows should be provided with Grill made of 10mm sq. MS Bars welded to at 150mm center-to-center, 6mm x 12mm MS flat. Total grill unit should be powder coated and fixed to window frame with screws.The rates shall include P/F of all hardware as per site requirement.	10.00	0	10	SQM		

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		PART A	PART B	Total Quantities			
92	Openable - WINDOW, TYPE:GALVANIZED IRON STEEL PRE PAINTED;; MATERIAL:GALVANIZED IRON STEEL PRE PAINTED;; WITH GLASS OF 5MM THICKNESS; MODEL: ECO 3000 SERIES; MAKE: NCL; DIMENSION AS PER SITE CONDITION; SPECIAL FEATURES: OPENABLE;Providing and fixing Eco 3000 Series Windows fabricated from roll formed sections made of Galvanized Steel Colour Coated/Powder Coated (Base Steel as per IS 513 "D" quality, Galvanized as per IS 277 with Zinc of 120 grams/Sq. Mtr.) with total coated thickness of 0.60 mm. Coated Sections should be with Primer Coat of Epoxy Primer of 5-7 microns thick, finish painted with Polyester Paint of 12-16 microns thick and back coated with Alkyd backer of 5-7 microns, or Powder Coated with pure Polyester Powder up to 50-60 microns thick.Section for frame should be 48mm x 50mm, Section for Mullion should be of 48mm x 50mm, Section for Glazed Shutter Frame should be of 47mm x 20mm, and Section for Fixed Glass Bead should be of 12mm x 12mm.Frame and Shutter Frame Sections should be cut to length and metre joined with Polypropylene Corner Brackets. Mullion Section should be joined with Frame/Mullion using Nylon Mullion Cap. Ethyl Propylene Diamine Monomer (EPDM) Gasket should be used all around glass in shutter.Each Glazed Shutter should be provided with S.S. Pivot Hinges-1set, Seccolor Handle & Seccolor Stay.Window Frame should be fixed to brick/concrete masonry by using Nylon self expanding caps and driving MS electroplated 80mm long screws into the caps through frames. (after fixing the windows, gap shall be filledup by sellicon sealant , gaps more than 5mm shall be filled with backer rod of approved quality).Glass shutter & Fixed Glass portions should be provided with a glass of 5MM Plain Float Glass.Windows should be provided with Grill made of 10mm sq. MS Bars welded to at 150mm center-to-center, 6mm x 12mm MS flat. Total grill unit should be powder coated and fixed to window frame with screws. The rates shall include P/F of all hardware as per site requirement.	4.00	0	4	SQM		
93	Chipping of Unsound Concrete :Cleaning the concrete surface by removing dirt and debris, marking defective locations and Chipping/removing of loose/Unsound/weak concrete from slabs beams , columns etc by careful stripping untill hard surface is exposed, cutting the concrete to regular shape, wire brushing the exposed surface and removing debris from site complete as per direction of the Engineer - in - Charge. Upto 75mm average. Protactive coating: Applying two coats of surface applied Bipolar Corrosion inhibitor FAIRCRETE C SURFACE APPLIED or equivalent as per manufacturer's specification and direction of the Engineer	50.00	45	95	SQM		
94	Providing and applying Reebaklens RR, a combination of acid based material, corrosion inhibitors and dispersing agents rust remover, for removal of all rust/ scales/corrosion from reinforcement bars before microconcreting or patch repair, having Specific Gravity 1.16-1.22. Reebaklens RR Shall be applied with brush for complete wetting of rusted metal surface at coverage of 2-2.5 Sqm/ltr. & allow it to react for 16-24 hours. After 24 hours, a white layer will appear which will protect further corrosion of metal /steel for about 5-7 days. Before applying any protective coating, the surface should be wire brushed and thoroughly cleaned for dust with dry cloth.	25.00	4	29	SQM		
95	Providing and applying Nitozinc Primer an epoxy based zinc rich anti corrosive primer having adhesive bond strength ≥ 1.5 MPa as per ASTM D4541, & shall comply to per ASTM B-117 to be applied on well cleaned, fully exposed and all loose scale , rust free rust free surface obtained by grit blasting or suitable means , to be done with coverage @4.5sqm/litres to achieve a minimum thickness of 40microns DFT or as per direction of Engineer-In charge.	25.00	4	29	SQM		

S.No.	Description	Quantities			Unit	Rate (In Rs.) e/x GST	Amount (In Rs.) e/x GST
		PART A	PART B	Total Quantities			
96	Providing and applying Renderoc SP40 shrinkage compensated fiber reinforced polymer modified wet spray repair mortar on the prepared surface and curing with curing compound. The repair mortar used shall be single component and shall be mixed with water at water powder ratio of 0.18 and shall have drying shrinkage < 1000 microstrain as per ASTM C 157-93; compressive strength > 40 MPa ; Flexural Strength > 7 Mpa as per ASTM C 348, bond strength > 6 MPa as per ASTM C 1042, etc complete. Product used shall have CE (CE-29842) marking and compliance according to Construction Products Directive 89/106/EEC (CPD). Cost of curing compound shall be paid separately. Thickness 25mm. [Polymer Modified Mortar for Surface Repair (Lesser thickness & Larger surface area- Wet spray mortar)]	50.00	45	95	SQM		
97	Providing and applying Concre 1315, a acrylic polymer based non-degrading single component having solid content 33% to be applied over the freshly casted concrete members. The coating shall be applied using brush/roller/roller @ consumption of 200ml/coat/sqm. The coating shall comply to ASTM C1315 Type 2, & shall have moisture retention < 0.4 kg/m ² as per ASTM C156, Adhesion of tile cement : >0.5 N/mm ² . [Curing Compound]	50.00	45	95	SQM		
98	Providing & Laying glass fiber cloth of approved quality all complete as per direction of engineer incharge.	405.00	430	835	SQM		
99	Polyurethane Waterproofing by Dr.Fixit Flexi PU 270(I) : Removing & chipping off of existing loose plaster. Clean the surface from contaminants with brush. Remove any sharp protrusion on the blinding layer by chipping and local repairs. Surface Preparation: All surfaces which are to receive the coating must be free from oil, laitance, grease, wax, dirt or any other form of foreign matter which might affect adhesion. Cut back any protrusions. Typically concrete surfaces can be cleaned using high pressure water jet or by proper wire brushing/grinder. All cracks, construction joints, honey combed/damaged surface to be repair with PMM and cracks to be chase out by cutting 25mm x 25mm "V" shape groove all along the crack, cleaning cracks and sealing it using Mesto Grout HS , curing etc., all complete as per the manufactureres specification and direction of engineer-in-charge. L Shape, Angular Fillet: Providing 50 mm X 50 mm angle fillets on the vertical up- stands, parapet wall junction corners, service units and properly dressed by preparing polymer modified mortar with Pidicrete URP or equivalent in the ratio of 1:3 by adding polymer 10% by weight of the cement, add little water, until the required consistency is achieved. Injection Grouting: Providing and applying injection grouting treatment by chemical injection grout process at construction joints, wall joints, honey comb areas etc. in concrete surface or the area using nozzles of min 25-50mm deep in slabs along with construction joints consisting of injection cement slurries of different viscosities under pressure by pump using injection grout waterproofing chemical (Pidicrete AM) mixed with neat cement slurry and sealing off nozzles after the injection operation. Screeding: Providing and laying of average 75mm thick (or suitable thickness for necessary slope) concrete screed of minimum M 20 grade concrete. PU Waterproofing Coating: Supplying and applying, Dr.Fixit Flexi PU	405.00	430	835	SQM		
100	Providing and fixing factory made Fiberglass Reinforced plastics (F.R.P.) chajja 4 mm thick of required colour, size and design made by Resin Transfer Moulding (RTM) Machine Technology, resulting in void free compact laminate in single piece, having smooth gradual slope curvature for easy drainage of water and duly reinforced by 2 nos vertically and 1 nos horizontally 50x2 mm thick M.S. flat with 12 mm in built hole for grouting on the existing wall along with the 50 mm flanges duly inserted and sealed in the wall complete in one single piece casted monolithically, including all necessary fittings . The FRP Chajja should be manufactured using unsaturated Polyester resin as per IS: 6746, duly reinforced with fibre glass chopped strand mat (CSM) as per IS: 11551 complete with protective Gel coat U/V coating on Top for complete resistance from the extreme of temperature, weather & sunlight. Note - Only plan area of chajjas shall be measured for making payment]	5.00	2	7	SQM		

S.No.	Description	Quantities			Unit	Rate (In Rs.) e/x GST	Amount (In Rs.) e/x GST
		PART A	PART B	Total Quantities			
101	Supply, installation Heavy duty factory made precast RCC trench covers (KK make) factory made 70mm thick of various size upto 1500 mm in length, 300 mm in width with TMT steel reinforcement bar of 10mm dia 4nos along length and 8mm dia c/c spacing of 150 mm & two no. GI hooks of for lifting, minimum grade of cement concrete M-35 grade, trench cover shall have both KK and BYPL logo.	35.00	10	45	SQM		
102	NRV Nozzles Installation: Drill and fix NRV nozzles in RC members, including (fixing material: Renderoc Plug of Fosroc / Sikadur-31 of Sika/ MasterBrace 2200 of BASF or equivalent of Pidilite& Krishna Conchem). Drilling Holes: Drilling 12 mm dia, 50 to 75 mm deep holes or upto required depth in structural members of the intervals of 350 mm in staggered manner or as directed by the Engineer-in-charge in RC structural elements. Cleaning of holes: Clean the holes by air blower prior to fixing nozzles. Fixing of Nozzles: Insert 12mm dia. NRV nozzles in cleaned holes. External end of nozzles to be machine to receive outlet of grouting gun. Fix it inside the holes by applying thytrophic epoxy putty to ensure complete sealing. Cure the system for min. 12 hrs. Cutting of Nozzles: Cut the nozzles by chisel after completion of grouting without damaging structural elements.	1580.00	580	2160	Nos		
103	Pressure Grouting with Epoxy Resin: Perform pressure grouting using Conbextra EP10, a low viscous solvent-free two-component epoxy resin with a density of 1050 kg/m³. Ensure the epoxy resin has viscosity < 0.6 poise (ASTM D1200), compressive strength > 80 MPa (ASTM D 695), and bond strength > 4 MPa (ASTM C882). Use products with CE marking and compliance according to Construction Products Directive 89/106/EEC. Mix epoxy resin components in required quantities as per manufacturer's instructions. Fill the grouting gun with epoxy resin and maintain desired pressure using an air compressor. Grout the material through prefixed nozzles in structural elements until refusal, sealing the nozzles with epoxy putty afterward. Monitor and seal leakages through other nozzles as required. Complete the operation within the pot life of the material. Clean the grouting gun and accessories with thinner after the operation to prevent jamming.	285.00	170	455	KG		
104	Providing and applying bond coat on the prepared surface with two component epoxy based bonding coat Nitobond EP of Fosroc make or equivalent, having specific gravity 1.15 to 1.2 gm/cc,. The bonding agent shall be applied by brush & should remain in tacky state after application for a minimum period of 5-6 hrs at 20 deg C & 2-3 hrs at 30 deg C. Laying of reinstatement polymer modified mortar or micro concrete shall be completed within the overlay time of bonding coat.	50.00	45	95	Sqm		
105	Construction of Horizontal and Vertical Seismic Band as per IS: 13925 by cutting chase in existing plaster by mechanical cutter, removing plaster, raking expose joints, cleaning, providing and fixing 3.25 mm dia (Gauge 10) Galvanised steel wire fabric mesh with spacing 25 mm x 25 mm to be fixed & firmly anchored to the surface of Brick masonry, stone masonry or concrete by means of GI steel shear key or bolts and tying the mesh to the bolts with GI binding wire including fixing the steel bars in position using epoxy resin anchor grout of approved make complete with cost of labour, tool & plants etc. complete as required for fixing as per direction of Engineer-in-charge.	320.00	95	415	SQM		

S.No.	Description	Quantities			Unit	Rate (In Rs.) e/x GST	Amount (In Rs.) e/x GST
		PART A	PART B	Total Quantities			
106	Provide and install sacrificial zinc anodes Fosroc Galvashield XPI, to prevent the initiation of corrosion in steel reinforcement within chloride-contaminated or carbonated concrete, or in new construction. Each anode unit must contain a minimum of 60 grams of zinc, compliant with ASTM B418-95a, Type I, die-cast around steel tie wires, ensuring proper separation if multiple tie wires are used. The anodes must be encapsulated in a highly alkaline cementitious mortar with a pH of 14 or higher, free from sulfates, chlorides, bromides, or any other corrosive elements to steel. The encapsulating mortar should feature an interconnected and fine pore structure to dissolve, transport, and accommodate zinc corrosion products away from the anode surface without causing additional stress to the concrete cover, maintaining a pH > 14 near the uncorroded zinc for the specified service life. Anode units shall be supplied with integral, well-separated tie wires (without splices if multiple wires are used) and loop ties for direct attachment to the reinforcing steel. Anodes should be covered with a bed mortar with resistivity less than 50 kOhm-cm or similar to the parent concrete on cleaned steel reinforcement before applying passivation coating. The scope includes supply, installation, spacing calculations, quality assurance procedures, and must adhere to manufacturer specifications. Approved brand shall be M/s Fosroc Galvashield Anodes/Vector Galvashield/IPSS	18.00	7	25	Nos		
107	Supply and apply Nitobond AR, an acrylic-based emulsified solution containing a minimum of 43% solids and compatible with cementitious materials. The bonding agent shall provide sufficient bond strength when applied directly on concrete or when mixed with neat cement. Ensure proper application to achieve effective adhesion between substrates and subsequent layers of cementitious materials, adhering to manufacturer's recommendations for optimal performance and durability in construction applications. Nitobond AR is particularly suitable when a longer working period after applying the bonding agent is required	35.00	12	47	Sqm		
108	Surface Preparation: Make a 'V' groove 5 mm wide and 5 mm deep over the crack line using an electrically operated angle grinder with a diamond concrete saw blade. Clean the groove thoroughly with an air blower as directed by the Engineer-in-charge.	40.00	15	55	M		
109	Sealing with Epoxy Repair Mortar: Seal the exposed 'V' groove (5 mm deep, 5 mm wide) with a solvent-free, moisture-tolerant, thixotropic, two-part structural adhesive and epoxy repair mortar cum surface leveling mortar. Ensure the epoxy repair mortar has compressive strength ≥ 60 N/mm ² (7 Days, BS 6319), flexural strength ≥ 20 N/mm ² (7 Days, BS 6319), and tensile strength ≥ 10 N/mm ² (7 days, ASTM C 307). Use products like NITOMORTAR S OF FOSROC, Sikadur®-31 of Sika, MasterBrace 2200 BASF, or equivalent of Pidilite.	40.00	15	55	M		
110	Supply and install reinforcement bars using Heavy Duty rebaring chemical Fosroc LOKFIX E77 for main bars and LOKFIX E45T for shear connectors, pure epoxy chemical anchor grout with ETA approval from DIBt, suitable for reinforcement bars ranging from 8 mm to 40 mm in diameter at specified embedment depths as per manufacturer's specifications. The epoxy chemical must have a working life period certified for 50 or 100 years as per ETA from DIBt, with properties including fire resistance tested to withstand 120 minutes (DIN EN 1363-1:2012, Technical Report TR 020), and must have water tightness certificate for "0" mm under 5 bar water pressure (EN 12390-8:2019). ETA approval from DIBt for Diamond Drilling is required, alongside LEED certification and compliance with LEED V4 standards (ISO 16000, EN 16516, CDPH 01350, ASTM D2369, EPA method 24). Rates shall encompass labor, tools and plants for power drilling in concrete, epoxy cartridges, plastic nozzles, and complete drilling holes with dust removal by air blowing. Additional charges apply for reinforcement bars. (Product :- Lockfix of Fosroc/ RE-500 of Hilti/ MasterFlow 935 AN of BASF/ Fischer/Wruth) : Rebar 10 mm Dia x 14 mm holes x 100mm depth	60.00	20	80	Nos		

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		PART A	PART B	Total Quantities			
111	Supply and install reinforcement bars using Heavy Duty rebaring chemical Fosroc LOKFIX E77 for main bars and LOKFIX E45T for shear connectors, pure epoxy chemical anchor grout with ETA approval from DIBt, suitable for reinforcement bars ranging from 8 mm to 40 mm in diameter at specified embedment depths as per manufacturer's specifications. The epoxy chemical must have a working life period certified for 50 or 100 years as per ETA from DIBt, with properties including fire resistance tested to withstand 120 minutes (DIN EN 1363-1:2012, Technical Report TR 020), and must have water tightness certificate for "0" mm under 5 bar water pressure (EN 12390-8:2019). ETA approval from DIBt for Diamond Drilling is required, alongside LEED certification and compliance with LEED V4 standards (ISO 16000, EN 16516, CDPH 01350, ASTM D2369, EPA method 24). Rates shall encompass labor, tools and plants for power drilling in concrete, epoxy cartridges, plastic nozzles, and complete drilling holes with dust removal by air blowing. Additional charges apply for reinforcement bars. (Product :- Lockfix of Fosroc/ RE-500 of Hilti/ MasterFlow 935 AN of BASF/ Fischer/Wruth) : Rebar 12 mm Dia x 16 mm holes dia x 120 mm depth	60.00	20	80	Nos		
112	Supply and install reinforcement bars using Heavy Duty rebaring chemical Fosroc LOKFIX E77 for main bars and LOKFIX E45T for shear connectors, pure epoxy chemical anchor grout with ETA approval from DIBt, suitable for reinforcement bars ranging from 8 mm to 40 mm in diameter at specified embedment depths as per manufacturer's specifications. The epoxy chemical must have a working life period certified for 50 or 100 years as per ETA from DIBt, with properties including fire resistance tested to withstand 120 minutes (DIN EN 1363-1:2012, Technical Report TR 020), and must have water tightness certificate for "0" mm under 5 bar water pressure (EN 12390-8:2019). ETA approval from DIBt for Diamond Drilling is required, alongside LEED certification and compliance with LEED V4 standards (ISO 16000, EN 16516, CDPH 01350, ASTM D2369, EPA method 24). Rates shall encompass labor, tools and plants for power drilling in concrete, epoxy cartridges, plastic nozzles, and complete drilling holes with dust removal by air blowing. Additional charges apply for reinforcement bars. (Product :- Lockfix of Fosroc/ RE-500 of Hilti/ MasterFlow 935 AN of BASF/ Fischer/Wruth) : Rebar 16 mm Dia x 20 mm holes dia x 160 mm depth	110.00	40	150	Nos		
113	Strengthening: Carbon fibre wrap/Carbon Laminates - Providing and applying uni directional, high strength carbon fiber sheets Nitowrap CWS of 450 GSM/ dry fabric thickness.The FRP fabric used shall be of zero degree unidirectional fibers having fiber density of 1.8 g/cc and shall have tensile strength > 4900 MPa ; tensile modulus > 230 GPa and ultimate elongation of 2.1%. The substrate shall be primed with Nitowrap 30 epoxy primer & Nitowrap 410 impregnating resin saturant shall be used for saturating the fibers. Saturant used shall have tensile strength of >30 MPa; Elongation > 2% ; Flexural strength > 30 MPa ; Tensile Modulus > 2400 MPa & Flexural Modulus > 1700 MPa when tested as per ASTM D638 Type I and ASTM D 790 & Glass Transition Temperature > 50 deg Celcius as per ASTM E 1356.The adhesion of the entire system(FRP Sheet, Saturant and primer combined) with concrete shall be > 3.5 MPa with concrete failure as per ASTM D 4541. (Product :- Nitowrap CWS of 450 GSM of Fosroc, Sikawrap® 930 G of Sika / MasterBrace FIB 73/900 of BASF) Surface preparation: Grinding/ moulding concrete substrate cleaning it with wire brush removing oil, laitance if present, rounding sharp edges to min 25mm radius etc. complete. Profiling : Applying compatible primer of approved make and brand on prepared substrate, filling the holes and uneven surface with thixotropic putty etc. complete. Wrapping : Wrapping the fiber sheet with recommended overlapping to structural element at desired orientation using tamping roller to avoid any air voids etc. repeat the same procedure for multiple layer with the interval of 8 hrs. Sand Pasting : Applying second coat of saturated after 12 hrs. rectify air voids if any, paste the coarse sand on it to make surface rough to take any further finishes (Mode of measurement : Per sqm surface area of application per layer).	24.00	8	32	SQM		

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		PART A	PART B	Total Quantities			
114	Supply and install fiber anchors to be embedded at a depth of 75 mm with 75 mm protrusion, spaced at 500 mm center to center. (Product make: Fosroc/ Sika/ BASF)	85.00	16	101	Nos		
115	PU Grout - Water-stopping crack injection resin foam shall be Nitofill WS60, a two-part foaming liquid polyurethane. When mixed in the supplied proportions and injected into concrete cracks, the resin reacts with moving water to create a foam barrier that stops water infiltration. The resin's properties include a pot life of 6-8 hours at 20°C, specific gravity of 1.11 ± 0.03, and foam density of 0.024g ± 0.003. Used alongside Nitofill UR63, a flexible two-part polyurethane injection resin, it ensures a permanent seal in cracked concrete. Nitofill UR63 is a solvent-free liquid polyurethane that, when mixed and injected into cracks, forms a slightly flexible and impermeable barrier in dry and damp conditions. This polyurethane system features a pot life of 60 to 80 minutes at 25°C, reaction time of 70 to 90 minutes at 25°C, viscosity of 40-60 cps at 25°C, and specific gravity of 1.1. When combined with Nitofill WS60, the foaming polyurethane resin, it guarantees a durable seal in cracked concrete : Nitofill WS60	55.00	4	59	Kg		
116	PU Grout - Water-stopping crack injection resin foam shall be Nitofill WS60, a two-part foaming liquid polyurethane. When mixed in the supplied proportions and injected into concrete cracks, the resin reacts with moving water to create a foam barrier that stops water infiltration. The resin's properties include a pot life of 6-8 hours at 20°C, specific gravity of 1.11 ± 0.03, and foam density of 0.024g ± 0.003. Used alongside Nitofill UR63, a flexible two-part polyurethane injection resin, it ensures a permanent seal in cracked concrete. Nitofill UR63 is a solvent-free liquid polyurethane that, when mixed and injected into cracks, forms a slightly flexible and impermeable barrier in dry and damp conditions. This polyurethane system features a pot life of 60 to 80 minutes at 25°C, reaction time of 70 to 90 minutes at 25°C, viscosity of 40-60 cps at 25°C, and specific gravity of 1.1. When combined with Nitofill WS60, the foaming polyurethane resin, it guarantees a durable seal in cracked concrete : Nitofill UR63	40.00	4	44	Kg		
117	Supply and apply Dekguard E2000, a high-performance elastomeric protective anticarbonation coating for concrete and masonry. The protective coating system includes a penetrating silane-siloxane primer (Dekguard Primer) and a single-component elastomeric anticarbonation aliphatic acrylic coating (Dekguard E2000). Ensure the total dry film thickness of the protective coating system is not less than 200 microns. The coating system shall provide CO2 diffusion resistance of at least 50 meters (equivalent air layer thickness), static crack accommodation of minimum 2mm, and adhesion greater than 1.0 N/mm ² as per ASTM D 4541. The product used must meet specified performance standards for durability and protection against carbonation. Apply in accordance with manufacturer's guidelines to ensure effective long-term performance and adherence to project requirements	18.00	5	23	Sqm		
118	Providing, cutting and laying SWG10 welded wire mesh and mesh size 50x50 mm including anchoring it on the wall with 4.75mm bar by drilling and fixing with cement slurry as per drawing details, specification and instruction by the Engineer.	205.00	80	285	Sqm		
119	Provide and apply single-component, free-flowing, non-shrink cementitious microconcrete at a water-to-powder ratio of 0.15. The microconcrete should have a fresh wet density of 2200 kg/m ³ at 27°C and an unrestrained expansion of 1 to 4% as per ASTM C827. It must achieve a flowable consistency and compressive strength of not less than 10 N/mm ² after 24 hours, 35 N/mm ² after 7 days, and 45 N/mm ² after 28 days at 30°C. The cured microconcrete shall be free from metallic aggregates and chlorides, and it must be shrinkage-compensated in the plastic state. Payment will be based on the consumed dry material of the microconcrete mix (Product :- Renderoc RG 45 of Fosroc/ SikaRep® Microcrete -4 of Sika / MasterEmaco S-346 of BASF or equivalent of Pidilite) : Without addition of aggregate	5.50	2.2	7.7	Ton		

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		PART A	PART B	Total Quantities			
120	Provide and apply single-component, free-flowing, non-shrink cementitious microconcrete at a water-to-powder ratio of 0.15. The microconcrete should have a fresh wet density of 2200 kg/m ³ at 27°C and an unrestrained expansion of 1 to 4% as per ASTM C827. It must achieve a flowable consistency and compressive strength of not less than 10 N/mm ² after 24 hours, 35 N/mm ² after 7 days, and 45 N/mm ² after 28 days at 30°C. The cured microconcrete shall be free from metallic aggregates and chlorides, and it must be shrinkage-compensated in the plastic state. Payment will be based on the consumed dry material of the microconcrete mix (Product :- Renderoc RG 45 of Fosroc/ SikaRep® Microcrete -4 of Sika / MasterEmaco S-346 of BASF or equivalent of Pidilite): With addition of 6 mm down aggregate in 3:1 (3 Micro concrete: 1 aggregate 6 mm & down)	6.00	2	8	Ton		
121	EXTRA PAYMENT FOR USING 15mm plaster - UltraTech Readiplast is a ready mix cement plaster/ render with high quality polymer additives, special binders, well graded sand and fillers can be applied on brick & block masonry for both external and internal plastering works.	73.00	43	116	SQM		
122	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface : Water thinnable cement primer	0.00	1020	1020	SQM		
Total e/x GST@18% of Package-IV							