

**CHAKRADHARPUR JHARKHAND DIVISION-GATI SHAKTI/SOUTH EASTERN R
TENDER DOCUMENT**

Tender No: CKP-ADD-26-27-03

Closing Date/Time: 27/07/2026 15:30

CPM GS CKP acting for and on behalf of The President of India invites E-Tenders against Tender No **CKP-ADD-26-27-03** Closing Date/Time 27/07/2026 15:30 Hrs. Bidders will be able to submit their original/revised bids upto closing date and time only. Manual offers are not allowed against this tender, and any such manual offer received shall be ignored.

1. NIT HEADER

Name of Work	Name of work:- Balance ABSS works at CKP, GP, PPO, DPS, JRLI, MOU, RKS, GMH, BUF, SNY, CBSA, BJMD and BMPR		
Bidding type	Normal Tender		
Tender Type	Open	Bidding System	Two Packet System
Tender Closing Date Time	27/07/2026 15:30	Date Time Of Uploading Tender	27/06/2026 18:34
Pre-Bid Conference Required	Yes	Pre-Bid Conference Date Time	06/07/2026 11:00
Advertised Value	1378538768.81	Tendering Section	GS SECTION
Bidding Style	Single Rate for Each Schedule	Bidding Unit	
Earnest Money (Rs.)	27570800.00	Validity of Offer (Days)	120
Tender Doc. Cost (Rs.)	0.00	Period of Completion	12 Months
Contract Type	Works - General	Contract Category	Expenditure
Bidding Start Date	13/07/2026		
Are JV allowed to bid	Yes	Number of JV Member Allowed	3
Are Consortium allowed to bid	No	Number of Consortium Member Allowed	0
Ranking Order For Bids	Lowest to Highest	Expenditure Type	Capital (Works)

2. SCHEDULE

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () A-Schedule - A (CPWD DSR 2023 Items)							1272552351.59	Above/ Below/Par
1	Please see Item Breakup for details.				475757401.81	8.00	513817993.95	
	Description:- (Detailed for Construction of type-II quarter 178 Nos)							
2	Please see Item Breakup for details.				45575747.23	8.00	49202151.01	
	Description:- (Detailed for Construction of type-III quarter 15 Nos)							
3	Please see Item Breakup for details.				9621512.75	8.00	10391233.77	
	Description:- (Detailed for Boaring of Deep Tube Well)							
4	Please see Item Breakup for details.				55740183.03	8.00	60199397.67	
	Description:- (Details for Construction of 7m wide road)							
5	Please see Item Breakup for details.				1226528.44	8.00	1324650.72	
	Description:- (Green Patches and landscaping)							
6	Please see Item Breakup for details.				44456532.30	8.00	48013054.88	
	Description:- (Parking Area)							
7	Please see Item Breakup for details.				8718977.90	8.00	9416496.13	
	Description:- (Pathway 3m wide & Boulder pitching)							
8	Please see Item Breakup for details.				3622736.71	8.00	3912555.65	
	Description:- (fly ash brick work boundary wall 150 m)							
9	Please see Item Breakup for details.				8539415.42	8.00	9222568.65	
	Description:- (boundary wall , Platform Surfacing)							
10	Please see Item Breakup for details.				91747727.76	8.00	99087545.98	
	Description:- (RCC BOX extension , RCC covered drain & Side drain)							
11	Please see Item Breakup for details.				23998769.18	8.00	25918670.71	
	Description:- (Concourse area & face uplifting)							
12	Please see Item Breakup for details.				97214399.25	8.00	104991551.19	
	Description:- (Construction of precast PSC segment boundary wall)							

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13	Please see Item Breakup for details.				39041187.68	8.00	42164482.69	
	Description:- (Construction of Fois office, store, Weigh bridge room RPF office, waiting hall, store, running room and others) as Railways office.							
14	Please see Item Breakup for details.				70429771.12	8.00	76064152.81	
	Description:- (Construction of Platform shelters)							
15	Please see Item Breakup for details.				4014283.50	8.00	4335426.18	
	Description:- (Facade improvement)							
16	Please see Item Breakup for details.				9780548.65	8.00	10562992.54	
	Description:- (dismantling and Demolition)							
17	Please see Item Breakup for details.				105555261.98	8.00	113999682.94	
	Description:- (Service building, Sub ordinate rest house with B/W)							
18	Please see Item Breakup for details.				16579781.49	8.00	17906164.01	
	Description:- (Renovation of old station heritage building)							
19	Please see Item Breakup for details.				17494689.37	8.00	18894264.52	
	Description:- (construction of RCC tank 1,00,000 Litre capacity)							
20	Please see Item Breakup for details.				9512422.25	8.00	10273416.03	
	Description:- (CST Plant)							
21	Please see Item Breakup for details.				13169353.10	8.00	14222901.35	
	Description:- Construction of New GRP office cum barrack against dismantling under ABSS							
22	Please see Item Breakup for details.				26510183.53	8.00	28630998.21	
	Description:- Road and parking area, Retail space Master Plan							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () B- (Item Directory -CPWD HORTICULTURE 2020-Ver-2)							3415356.89	Above/ Below/Par
23	Please see Item Breakup for details.				3415356.89	AT Par	3415356.89	
	Description:- development of green zone in circulating area							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () C-(RCC Box with pushing (internal size 7.5m x5m) for 10Mtr length)							4580026.68	Above/ Below/Par
24	Please see Item Breakup for details.				4580026.68	AT Par	4580026.68	
	Description:- (RCC Box with pushing (internal size 7.5m x5m) for 10Mtr length)							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () D- NS ITEM							97991033.65	Above/ Below/Par
25	Please see Item Breakup for details.				97991033.65	AT Par	97991033.65	
	Description:- (CST PLANT)							

3. ITEM BREAKUP

Schedule	Schedule A-Schedule - A (CPWD DSR 2023 Items)						
Item- 1	(Detailed for Construction of type-II quarter 178 Nos)						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount	
	2.0	EARTH WORK					
	2.15	General					
	2.6	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and for all lift, as directed by Engineer-in-charge.					
1	2.6.1	All kinds of soil	cum	7645.5	177.5	1357076.25	

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2	2.25A	Excavating, supplying and filling of local earth (including royalty) by mechanical transport upto a lead of 5km also including ramming and watering of the earth in layers not exceeding 20 cm in trenches, plinth, sides of foundation etc. complete.	cum	5340	700.5	3740670
3	2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	cum	623.5	2123.75	1324158.13
	4.0	CONCRETE WORK				
	4.1S	CEMENT CONCRETE (CAST IN SITU)				
	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
4	4.1.3	1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	534	7878.5	4207119
5	4.1.5	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)	cum	1068	7294.7	7790739.6
	4.3	Centering and shuttering including strutting, propping etc. and removal of form work for :				
6	4.3.1	Foundations, footings, bases for columns	Sqm	4450	392.15	1745067.5
	4.10S	DAMP-PROOF COURSE				
7	4.11	Providing and laying damp-proof course 50mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20mm nominal size derived from natural sources).	Sqm	1157.5	495.75	573830.63
	5.0	REINFORCEMENT CEMENT CONCRETE				
	5.1S	CAST IN SITU				
	5.1	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :				
8	5.1.2	1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	2314	9045.75	20931865.5
	5.2	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement :				
9	5.2.2	1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	1068	10852.95	11590950.6

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10	5.3	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15 degree landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	cum	4272	11505.5	49151496
	5.9S	FORM WORK				
	5.9	Centering and shuttering including strutting, propping etc. and removal of form for				
11	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete	Sqm	6230	392.15	2443094.5
12	5.9.3	Suspended floors, roofs, landings, balconies and access platform	Sqm	22255	927.25	20635948.75
13	5.9.5	Lintels, beams, plinth beams, girders, bressummers and cantilevers	Sqm	22813	736.4	16799493.2
14	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts	Sqm	13350	961.3	12833355
	5.12S	PRE-CAST RCC				
15	5.12	Providing, hoisting and fixing above plinth level up to floor five level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like, including the cost of required centering, shuttering but , excluding cost of reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	cum	320.4	10585.9	3391722.36
	5.22S	STEEL REINFORCEMENT				
	5.22	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.				
16	5.22.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	258175	107.85	27844173.75
	5.22A	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.				
17	5.22A.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	577375	107.85	62269893.75
	6.0	MASONRY WORK				
	6.1S	General				
	6.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				
18	6.1.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	356	7132.25	2539081
	6.4	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 :				
19	6.4.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	1335.5	9105.95	12160996.23
	6.12S	HALF BRICK MASONRY				

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	6.13	Half brick masonry 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.				
20	6.13.2	Cement mortar 1:4 (1 cement :4 coarse sand)	Sqm	1335.5	1123.8	1500834.9
	6.26S	EXPOSED BRICK WALL				
21	6.47	Providing and laying Autoclaved Aerated Concrete (AAC) blocks masonry with 150 mm to 300 mm thick with Grade -1 AAC blocks of density 551 to 650 kg/cum conforming to IS: 2185 (Part 3) in super structure above plinth level up to floor V level with RCC band at sill level and lintel level with approved block laying polymer modified adhesive mortar all complete as per direction of Engineer-in-Charge. (The payment of RCC band and reinforcement shall be made for separately).	cum	4420	8333.65	36834733
	8.0	CLADDING WORK				
	8.1S	General				
	8.2	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 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				
	8.2.2	Granite stone slab colour black, Cherry/Ruby red				
22	8.2.2.2	Area of slab over 0.50 sqm	Sqm	890	5136.3	4571307
	9.0	WOOD AND P.V.C. WORK				
	9.1S	FRAMES AND TRUSSES				
	9.20	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.				
23	9.20.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	Sqm	2315	3473.85	8041962.75
	9.40S	MISCELLANEOUS-WOOD WORK				
	9.48	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.				
24	9.48.1	Fixed to steel windows by welding	Kg	40055	219.1	8776050.5
	9.95S	ANODISED ALUMINIUM FITTINGS (ALL FITTINGS SHALL BE ISI MARKED)				
	9.97	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :				
25	9.97.2	250x10 mm	Each	2138	115.15	246190.7
26	9.97.4	150x10 mm	Each	2315	82.55	191103.25

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	9.105S	GYPSUM BOARD PARTITIONS				
27	9.119	Providing and fixing factory made P.V.C. door frame of size 50x47 mm with a wall thickness of 5 mm, made out of extruded 5 mm rigid PVC foam sheet, mitred at corners and joined with 2 Nos of 150 mm long brackets of 15x15 mm M.S. square tube, the vertical door frame profiles to be reinforced with 19x19 mm M.S. square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame. The door frame to be fixed to the wall using M.S. screws of 65/100 mm size, complete as per manufacturer's specification and direction of Engineer- in-Charge.	Metre	1780	492.7	877006
	9.120	Providing and fixing factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19 mm x 19 mm for styles and 15x15 mm for top & bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture. M.S. frame covered with 5 mm thick heat moulded PVC 'C' channel of size 30 mm thickness, 70 mm width out of which 50 mm shall be flat and 20 mm shall be tapered in 45 degree angle on both side forming styles and 5 mm thick, 95 mm wide PVC sheet out of which 75mm shall be flat and 20 mm shall be tapered in 45 degree on the inner side to form top and bottom rail and 115 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered on both sides to form lock rail. Top, bottom and lock rails shall be provided both side of the panel. 10 mm (5 mm x 2) thick, 20 mm wide cross PVC sheet be provided as gap insert for top rail & bottom rail, panelling of 5 mm thick both side PVC sheet to be fitted in the M.S. frame welded/ sealed to the styles & rails with 7 mm (5 mm+2 mm) thick x 15 mm wide PVC sheet beading on inner side, and joined together with solvent cement adhesive. An additional 5 mm thick PVC strip of 20 mm width is to be stuck on the interior side of the 'C' Channel using PVC solvent adhesive etc. complete as per direction of Engineer-in-charge, manufacturer's specification & drawing.				
28	9.120.1	30 mm thick plain PVC door shutters	Sqm	716	3182.95	2278992.2
	9.165	Providing and fixing bright /matt finished Stainless Steel handles of approved quality & make with necessary screws etc all complete.				
29	9.165.1	125 mm	Each	2670	119.2	318264
	10.0	STEEL WORK				
	10.1S	General				
30	10.1	Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	Kg	5340	117.35	626649
31	10.2	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	Kg	54325	133.7	7263252.5

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32	10.3	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2 mm and braced with flat iron diagonals 20x5 mm size, with top and bottom rail of T-iron 40x40x6 mm, with 40 mm dia steel pulleys, complete with bolts, nuts, locking arrangement, stoppers, handles, including applying a priming coat of approved steel primer.	Sqm	147	11439.6	1681621.2
	10.25	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.				
33	10.25.2	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	Kg	6230	172.6	1075298
34	10.28	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, including fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).	Kg	12460	772.4	9624104
	11.0	FLOORING				
	11.26S	KOTA STONE FLOORING				
	11.26	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) :				
35	11.26.1	25 mm thick	Sqm	3920	1948.25	7637140
36	11.27	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.	Sqm	1245	2354.7	2931601.5
	11.37S	CERAMIC GLAZED TILES				
37	11.37A	Providing and fixing 1st quality ceramic glazed floor tiles conforming to IS : 15622 (thickness to be specified by the manufacturer) of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge in skirting, risers of steps and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement: 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete.	Sqm	13889	1112.7	15454290.3
	11.41S	VITRIFIED FLOOR TILES				

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	11.41A	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.				
	11.41A.1	Double charge vitrified tile polished finish of size				
38	11.41A.1.1	Size of Tile 600 x 600 mm	Sqm	8015	1453.65	11651004.75
	11.41A.3	Glazed Vitrified tiles Matt/Antiskid finish of size				
39	11.41A.3.1	Size of Tile 600 x 600 mm	Sqm	2675	1464.85	3918473.75
	11.46	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete.				
40	11.46.1	Size of Tile 500x500 mm	Sqm	2675	1593.9	4263682.5
	12.0	ROOFING				
	12.37S	RAIN WATER SPOUT AND PIPE				
	12.41	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.				
41	12.41.2	110 mm diameter	Metre	3560	377.4	1343544
42	12.50	Providing and fixing pre-coated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) of total coated thickness 0.50 mm (base metal of minimum 0.45 mm thickness with total coating thickness of 0.05 mm) 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.	Sqm	1335.5	738.65	986467.08

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	12.51	Providing and fixing precoated galvanised steel sheet roofing accessories of total coated thickness 0.50 mm (base metal of minimum 0.45 mm thickness with total coating thickness of 0.05 mm) with Zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/ self tapping screws complete :				
43	12.51.1	Ridges plain (500 - 600mm)	Metre	716	532.35	381162.6
	13.0	FINISHING				
	13.1S	CEMENT PLASTER (IN FINE SAND)				
	13.1	12 mm cement plaster of mix :				
44	13.1.2	1:6 (1 cement: 6 fine sand)	Sqm	3560	333.35	1186726
	13.4S	CEMENT PLASTER (IN COARSE SAND)				
	13.5	15 mm cement plaster on rough side of single or half brick wall of mix:				
45	13.5.2	1:6 (1 cement: 6 coarse sand)	Sqm	23150	395.35	9152352.5
	13.20S	PEBBLE DASH PLASTER				
46	13.26	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	Sqm	71200	262.7	18704240
	13.37S	INTERIOR FINISHING				
	13.41	Distempering with 1st quality acrylic distemper (ready mixed) having VOC content less than 50 gram/litre, of approved manufacturer and of required shade and colour all complete to achieve even shade and colour :				
47	13.41.1	New work (two or more coats) over and including water thinnable priming coat with cement primer having VOC content less than 50 gram/litre	Sqm	71200	185.65	13218280
	13.44S	EXTERIOR FINISHING				
	13.44	Finishing walls with water proofing cement paint of required shade :				
48	13.44.1	New work (Two or more coats applied @ 3.84 kg/10 sqm)	Sqm	1157.5	116.9	135311.75
	13.48	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :				
49	13.48.3	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @ 0.80 ltr/10 sqm of approved brand and manufacture	Sqm	10344	170.7	1765720.8
	13.63	Painting with aluminium paint of approved brand and manufacture to give an even shade .				
50	13.63.1	Two or more coats on new work	Sqm	362	146.8	53141.6
	16.0	ROAD WORK				
	16.49S	MISCELLANEOUS				
51	16.68	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.	Sqm	5340	972	5190480

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	17.0	SANITARY INSTALLATIONS				
	17.1S	General				
	17.1	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:				
52	17.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	Each	178	6767.4	1204597.2
	17.2	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required :				
53	17.2.1	W.C. pan with ISI marked white solid plastic seat and lid	Each	178	6515.55	1159767.9
	17.7	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:				
54	17.7.1	White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps	Each	356	2648.85	942990.6
	17.10	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS:13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required :				
	17.10.2	Kitchen sink without drain board				
55	17.10.2.1	610x510 mm bowl depth 200 mm	Each	178	4940.8	879462.4
	17.32	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing :				
56	17.32.3	Oval shape 450x350 mm (outer dimensions)	Each	356	1377.1	490247.6
	17.35	Providing and fixing soil, waste and vent pipes :				
	17.35.2	75 mm diameter :				
57	17.35.2.1	Sand cast iron S&S pipe as per IS: 1729	Metre	3115.5	1044.75	3254918.63
	17.36	Providing and filling the joints with spun yarn, cement slurry and cement mortar 1:2 (1 cement : 2 fine sand) in S.C.I./ C.I. Pipes :				
58	17.36.1	75 mm dia pipe	Each	535	168.2	89987
59	17.71	Providing and fixing PTMT liquid soap container 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour, weighing not less than 105 gms.	Each	356	168.35	59932.6

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	17.73	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour.				
60	17.73.1	450 mm long towel rail with total length of 495 mm, 78 mm wide and effective height of 88 mm, weighing not less than 170 gms	Each	356	673.4	239730.4
	18.0	WATER SUPPLY				
	18.4S	PP-R PIPES				
	18.4	Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes confirming to IS 15801, UV stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings and fixing the pipe with clamps at 1.00 m spacing. This includes testing of joints complete as per direction of Engineer-in-Charge. (Internal Exposed on walls)				
61	18.4.4	PN - 16 Pipe, 40mm OD (SDR-7.4)	Metre	6230	545.75	3400022.5
	18.7S	C.P.V.C. PIPES				
	18.8	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings and fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc.				
62	18.8.1	15 mm nominal dia Pipes	Metre	5340	497.8	2658252
	18.31S	C.I. SLUICE VALVES/ FIRE HYDRANTS & FIXTURES				
63	18.48	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	Per Litre	178000	11	1958000
	18.54S	PTMT FITTINGS				
	18.54	Providing and fixing PTMT bib cock of approved quality and colour.				
64	18.54.1	15 mm nominal bore, 86 mm long, weighing not less than 88 gms	Each	356	125.6	44713.6
	21.0	ALUMINIUM WORK				
	21.1S	General				

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	21.1	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, panelling and dash fasteners to be paid for separately) :				
	21.1.1	For fixed portion				
65	21.1.1.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	Kg	6230	495.05	3084161.5
	21.1.2	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately)				
66	21.1.2.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	Kg	8010	598.6	4794786
	21.3	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item):				
67	21.3.1	With float glass panes of 4.0 mm thickness (weight not less than 10kg/sqm)	Sqm	5340	1176.8	6284112
					Total	475757401.81
Item- 2	(Detailed for Construction of type-III quarter 15 Nos)					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
	2.0	EARTH WORK				
	2.15	General				
	2.6	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and for all lift, as directed by Engineer-in-charge.				
1	2.6.1	All kinds of soil	cum	416	177.5	73840
2	2.25A	Excavating, supplying and filling of local earth (including royalty) by mechanical transport upto a lead of 5km also including ramming and watering of the earth in layers not exceeding 20 cm in trenches, plinth, sides of foundation etc. complete.	cum	375	700.5	262687.5
3	2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	cum	92	2123.75	195385
	4.0	CONCRETE WORK				

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	4.1S	CEMENT CONCRETE (CAST IN SITU)				
	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
4	4.1.3	1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	92	7878.5	724822
5	4.1.5	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)	cum	58	7294.7	423092.6
	4.3	Centering and shuttering including strutting, propping etc. and removal of form work for :				
6	4.3.1	Foundations, footings, bases for columns	Sqm	375	392.15	147056.25
	4.10S	DAMP-PROOF COURSE				
7	4.11	Providing and laying damp-proof course 50mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20mm nominal size derived from natural sources).	Sqm	92	495.75	45609
	5.0	REINFORCEMENT CEMENT CONCRETE				
	5.1S	CAST IN SITU				
	5.1	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :				
8	5.1.2	1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	191	9045.75	1727738.25
	5.2	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement :				
9	5.2.2	1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	63	10852.95	683735.85
10	5.3	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15 degree landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	cum	404	11505.5	4648222
	5.9S	FORM WORK				
	5.9	Centering and shuttering including strutting, propping etc. and removal of form for				
11	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete	Sqm	375	392.15	147056.25

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12	5.9.3	Suspended floors, roofs, landings, balconies and access platform	Sqm	2441	927.25	2263417.25
13	5.9.5	Lintels, beams, plinth beams, girders, bressummers and cantilevers	Sqm	1875	736.4	1380750
14	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts	Sqm	941	961.3	904583.3
	5.12S	PRE-CAST RCC				
15	5.12	Providing, hoisting and fixing above plinth level up to floor five level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like, including the cost of required centering, shuttering but , excluding cost of reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	cum	41	10585.9	434021.9
	5.22S	STEEL REINFORCEMENT				
	5.22	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.				
16	5.22.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	16500	107.85	1779525
	5.22A	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.				
17	5.22A.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	66566	107.85	7179143.1
	6.0	MASONRY WORK				
	6.1S	General				
	6.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				
18	6.1.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	58	7132.25	413670.5
	6.4	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 :				
19	6.4.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	191	9105.95	1739236.45
	6.12S	HALF BRICK MASONRY				
	6.13	Half brick masonry 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.				
20	6.13.2	Cement mortar 1:4 (1 cement :4 coarse sand)	Sqm	191	1123.8	214645.8
	6.26S	EXPOSED BRICK WALL				
21	6.47	Providing and laying Autoclaved Aerated Concrete (AAC) blocks masonry with 150 mm to 300 mm thick with Grade -1 AAC blocks of density 551 to 650 kg/cum conforming to IS: 2185 (Part 3) in super structure above plinth level up to floor V level with RCC band at sill level and lintel level with approved block laying polymer modified adhesive mortar all complete as per direction of Engineer-in-Charge. (The payment of RCC band and reinforcement shall be made for separately).	cum	450	8333.65	3750142.5
	8.0	CLADDING WORK				

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	8.1S	General				
	8.2	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 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				
	8.2.2	Granite stone slab colour black, Cherry/Ruby red				
22	8.2.2.2	Area of slab over 0.50 sqm	Sqm	92	5136.3	472539.6
	9.0	WOOD AND P.V.C. WORK				
	9.1S	FRAMES AND TRUSSES				
	9.20	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.				
23	9.20.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	Sqm	283	3473.85	983099.55
	9.40S	MISCELLANEOUS-WOOD WORK				
	9.48	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.				
24	9.48.1	Fixed to steel windows by welding	Kg	6000	219.1	1314600
	9.95S	ANODISED ALUMINIUM FITTINGS (ALL FITTINGS SHALL BE ISI MARKED)				
	9.97	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :				
25	9.97.2	250x10 mm	Each	240	115.15	27636
26	9.97.4	150x10 mm	Each	60	82.55	4953
	9.105S	GYPSUM BOARD PARTITIONS				
27	9.119	Providing and fixing factory made P.V.C. door frame of size 50x47 mm with a wall thickness of 5 mm, made out of extruded 5 mm rigid PVC foam sheet, mitred at corners and joined with 2 Nos of 150 mm long brackets of 15x15 mm M.S. square tube, the vertical door frame profiles to be reinforced with 19x19 mm M.S. square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame. The door frame to be fixed to the wall using M.S. screws of 65/100 mm size, complete as per manufacturer's specification and direction of Engineer- in-Charge.	Metre	150	492.7	73905

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	9.120	Providing and fixing factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19 mm x 19 mm for styles and 15x15 mm for top & bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture. M.S. frame covered with 5 mm thick heat moulded PVC 'C' channel of size 30 mm thickness, 70 mm width out of which 50 mm shall be flat and 20 mm shall be tapered in 45 degree angle on both side forming styles and 5 mm thick, 95 mm wide PVC sheet out of which 75mm shall be flat and 20 mm shall be tapered in 45 degree on the inner side to form top and bottom rail and 115 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered on both sides to form lock rail. Top, bottom and lock rails shall be provided both side of the panel. 10 mm (5 mm x 2) thick, 20 mm wide cross PVC sheet be provided as gap insert for top rail & bottom rail, panelling of 5 mm thick both side PVC sheet to be fitted in the M.S. frame welded/ sealed to the styles & rails with 7 mm (5 mm+2 mm) thick x 15 mm wide PVC sheet beading on inner side, and joined together with solvent cement adhesive. An additional 5 mm thick PVC strip of 20 mm width is to be stuck on the interior side of the 'C' Channel using PVC solvent adhesive etc. complete as per direction of Engineer-in-charge, manufacturer's specification & drawing.				
28	9.120.1	30 mm thick plain PVC door shutters	Sqm	58	3182.95	184611.1
	9.165	Providing and fixing bright /matt finished Stainless Steel handles of approved quality & make with necessary screws etc all complete.				
29	9.165.1	125 mm	Each	240	119.2	28608
	10.0	STEEL WORK				
	10.1S	General				
30	10.1	Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	Kg	941	117.35	110426.35
31	10.2	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	Kg	3000	133.7	401100
32	10.3	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2 mm and braced with flat iron diagonals 20x5 mm size, with top and bottom rail of T-iron 40x40x6 mm, with 40 mm dia steel pulleys, complete with bolts, nuts, locking arrangement, stoppers, handles, including applying a priming coat of approved steel primer.	Sqm	21.8	11439.6	249383.28
	10.25	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.				

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33	10.25.2	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	Kg	666	172.6	114951.6
34	10.28	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, including fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).	Kg	1125	772.4	868950
	11.0	FLOORING				
	11.26S	KOTA STONE FLOORING				
	11.26	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) :				
35	11.26.1	25 mm thick	Sqm	375	1948.25	730593.75
36	11.27	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.	Sqm	75	2354.7	176602.5
	11.37S	CERAMIC GLAZED TILES				
37	11.37A	Providing and fixing 1st quality ceramic glazed floor tiles conforming to IS : 15622 (thickness to be specified by the manufacturer) of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge in skirting, risers of steps and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement: 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete.	Sqm	1316	1112.7	1464313.2
	11.41S	VITRIFIED FLOOR TILES				
	11.41A	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.				

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	11.41A.1	Double charge vitrified tile polished finish of size				
38	11.41A.1.1	Size of Tile 600 x 600 mm	Sqm	733	1453.65	1065525.45
	11.41A.3	Glazed Vitrified tiles Matt/Antiskid finish of size				
39	11.41A.3.1	Size of Tile 600 x 600 mm	Sqm	225	1464.85	329591.25
	11.46	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete.				
40	11.46.1	Size of Tile 500x500 mm	Sqm	225	1593.9	358627.5
	12.0	ROOFING				
	12.37S	RAIN WATER SPOUT AND PIPE				
	12.41	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.				
41	12.41.2	110 mm diameter	Metre	191	377.4	72083.4
42	12.50	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) of total coated thickness 0.50 mm (base metal of minimum 0.45 mm thickness with total coating thickness of 0.05 mm) 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.	Sqm	191	738.65	141082.15
	12.51	Providing and fixing precoated galvanised steel sheet roofing accessories of total coated thickness 0.50 mm (base metal of minimum 0.45 mm thickness with total coating thickness of 0.05 mm) with Zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/ self tapping screws complete :				
43	12.51.1	Ridges plain (500 - 600mm)	Metre	92	532.35	48976.2
	13.0	FINISHING				
	13.1S	CEMENT PLASTER (IN FINE SAND)				
	13.1	12 mm cement plaster of mix :				
44	13.1.2	1:6 (1 cement: 6 fine sand)	Sqm	566	333.35	188676.1
	13.4S	CEMENT PLASTER (IN COARSE SAND)				

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	13.5	15 mm cement plaster on rough side of single or half brick wall of mix:				
45	13.5.2	1:6 (1 cement: 6 coarse sand)	Sqm	2516	395.35	994700.6
	13.20S	PEBBLE DASH PLASTER				
46	13.26	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	Sqm	4691	262.7	1232325.7
	13.37S	INTERIOR FINISHING				
	13.41	Distempering with 1st quality acrylic distemper (ready mixed) having VOC content less than 50 gram/litre, of approved manufacturer and of required shade and colour all complete to achieve even shade and colour :				
47	13.41.1	New work (two or more coats) over and including water thinnable priming coat with cement primer having VOC content less than 50 gram/litre	Sqm	4691	185.65	870884.15
	13.44S	EXTERIOR FINISHING				
	13.44	Finishing walls with water proofing cement paint of required shade :				
48	13.44.1	New work (Two or more coats applied @ 3.84 kg/10 sqm)	Sqm	2816	116.9	329190.4
	13.48	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :				
49	13.48.3	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @ 0.80 ltr/10 sqm of approved brand and manufacture	Sqm	658	170.7	112320.6
	13.63	Painting with aluminium paint of approved brand and manufacture to give an even shade .				
50	13.63.1	Two or more coats on new work	Sqm	41	146.8	6018.8
	17.0	SANITARY INSTALLATIONS				
	17.1S	General				
	17.1	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231,with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:				
51	17.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	Each	15	6767.4	101511
	17.2	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required :				
52	17.2.1	W.C. pan with ISI marked white solid plastic seat and lid	Each	15	6515.55	97733.25

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	17.7	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:				
53	17.7.1	White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps	Each	30	2648.85	79465.5
	17.10	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS:13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required :				
	17.10.2	Kitchen sink without drain board				
54	17.10.2.1	610x510 mm bowl depth 200 mm	Each	15	4940.8	74112
	17.32	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing :				
55	17.32.3	Oval shape 450x350 mm (outer dimensions)	Each	30	1377.1	41313
	17.35	Providing and fixing soil, waste and vent pipes :				
	17.35.2	75 mm diameter :				
56	17.35.2.1	Sand cast iron S&S pipe as per IS: 1729	Metre	191	1044.75	199547.25
	17.36	Providing and filling the joints with spun yarn, cement slurry and cement mortar 1:2 (1 cement : 2 fine sand) in S.C.I./ C.I. Pipes :				
57	17.36.1	75 mm dia pipe	Each	58	168.2	9755.6
58	17.71	Providing and fixing PTMT liquid soap container 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour, weighing not less than 105 gms.	Each	30	168.35	5050.5
	17.73	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour.				
59	17.73.1	450 mm long towel rail with total length of 495 mm, 78 mm wide and effective height of 88 mm, weighing not less than 170 gms	Each	30	673.4	20202
	18.0	WATER SUPPLY				
	18.4S	PP-R PIPES				
	18.4	Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes confirming to IS 15801, UV stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings and fixing the pipe with clamps at 1.00 m spacing. This includes testing of joints complete as per direction of Engineer-in-Charge. (Internal Exposed on walls)				
60	18.4.4	PN - 16 Pipe, 40mm OD (SDR-7.4)	Metre	375	545.75	204656.25
	18.7S	C.P.V.C. PIPES				

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	18.8	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings and fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc.				
61	18.8.1	15 mm nominal dia Pipes	Metre	191	497.8	95079.8
	18.31S	C.I. SLUICE VALVES/ FIRE HYDRANTS & FIXTURES				
62	18.48	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	Per Litre	15000	11	165000
	18.54S	PTMT FITTINGS				
	18.54	Providing and fixing PTMT bib cock of approved quality and colour.				
63	18.54.1	15 mm nominal bore, 86 mm long, weighing not less than 88 gms	Each	60	125.6	7536
	21.0	ALUMINIUM WORK				
	21.1S	General				
	21.1	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, panelling and dash fasteners to be paid for separately) :				
	21.1.1	For fixed portion				
64	21.1.1.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	Kg	1125	495.05	556931.25
	21.1.2	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately)				
65	21.1.2.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	Kg	1500	598.6	897900

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	21.3	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item):				
66	21.3.1	With float glass panes of 4.0 mm thickness (weight not less than 10kg/sqm)	Sqm	242	1176.8	284785.6
	26.0	NEW TECHNOLOGIES AND MATERIALS				
	26.41S	NEW TECHNOLOGY ITEMS				
67	26.72	Providing and laying 60mm thick factory made cement concrete paver block of approved shape and colour of M -30 grade made of C&D waste by block making machine with vibratory compaction laid in required pattern and including over 50mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge.	Sqm	750	829.75	622312.5
					Total	45557547.23
Item- 3	(Detailed for Boaring of Deep Tube Well)					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
	2.0	EARTH WORK				
	2.1S	General				
	2.8	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, for all lift, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
1	2.8.1	All kinds of soil.	cum	5	260.3	1301.5
	4.0	CONCRETE WORK				
	4.1S	CEMENT CONCRETE (CAST IN SITU)				
	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
2	4.1.3	1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	3	7878.5	23635.5
3	4.1.6	1:3:6 (1 Cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 40 mm nominal size derived from natural sources)	cum	3	7178.75	21536.25
	5.0	REINFORCEMENT CEMENT CONCRETE				
	5.1S	CAST IN SITU				
	5.1	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :				
4	5.1.2	1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	2	9045.75	18091.5
	5.9S	FORM WORK				
	5.9	Centering and shuttering including strutting, propping etc. and removal of form for				
5	5.9.3	Suspended floors, roofs, landings, balconies and access platform	Sqm	40	927.25	37090

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	5.22S	STEEL REINFORCEMENT				
	5.22	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.				
6	5.22.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	1000	107.85	107850
	6.0	MASONRY WORK				
	6.1S	General				
	6.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				
7	6.1.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	5	7132.25	35661.25
	6.4	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 :				
8	6.4.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	5	9105.95	45529.75
	8.0	CLADDING WORK				
	8.1S	General				
	8.2	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 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				
	8.2.2	Granite stone slab colour black, Cherry/Ruby red				
9	8.2.2.1	Area of slab upto 0.50 sqm	Sqm	50	5413.5	270675
10	8.2.2.2	Area of slab over 0.50 sqm	Sqm	50	5136.3	256815
	11.0	FLOORING				
	11.1S	General				
	11.1	Brick on edge flooring with bricks of class designation 7.5 on a bed of 12 mm cement mortar, including filling the joints with same mortar, with common burnt clay non modular bricks:				
11	11.1.2	1:6 (1cement : 6 coarse sand)	Sqm	40	965.55	38622
	13.0	FINISHING				
	13.1S	CEMENT PLASTER (IN FINE SAND)				
	13.3	20 mm cement plaster of mix :				
12	13.3.2	1:6 (1 cement: 6 fine sand)	Sqm	60	450	27000
	17.0	SANITARY INSTALLATIONS				
	17.1S	General				
13	17.29	Providing and fixing 100 mm sand cast Iron grating for gully trap.	Each	30	53.25	1597.5
	17.35	Providing and fixing soil, waste and vent pipes :				
	17.35.1	100 mm dia				
14	17.35.1.1	Sand cast iron S&S pipe as per IS: 1729	Metre	100	1151.9	115190
	17.39	Providing and fixing plain bend of required degree.				
	17.39.1	100 mm dia				
15	17.39.1.1	Sand cast iron S&S as per IS - 1729	Each	20	470.45	9409

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	18.0	WATER SUPPLY				
	18.4S	PP-R PIPES				
	18.6	Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes confirming to IS:15801 UV stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings, including trenching, refilling & testing of joints complete as per direction of Engineer-in-Charge. External work				
16	18.6.1	PN - 16 Pipe, 20mm OD (SDR-7.4)	Metre	500	224.95	112475
17	18.6.2	PN - 16 Pipe, 25 mm OD (SDR-7.4)	Metre	400	265.05	106020
18	18.6.3	PN - 16 Pipe, 32 mm OD (SDR-7.4)	Metre	150	316.25	47437.5
19	18.6.4	PN - 16 Pipe, 40 mm OD (SDR-7.4)	Metre	200	415.1	83020
20	18.6.6	PN - 10 Pipe, 63 mm OD (SDR-11)	Metre	10920	597.75	6527430
	18.7S	C.P.V.C. PIPES				
	18.7	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, and 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)				
21	18.7.2	20 mm nominal dia Pipes	Metre	100	335	33500
	18.15S	BRASS FITTINGS				
	18.15	Providing and fixing brass bib cock of approved quality :				
22	18.15.2	20 mm nominal bore	Each	40	379.2	15168
	18.17	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :				
23	18.17.1A	20 mm nominal bore	Each	20	539.95	10799
24	18.17.4	50 mm nominal bore	Each	10	1026.65	10266.5
	18.31S	C.I. SLUICE VALVES/ FIRE HYDRANTS & FIXTURES				
25	18.48	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	Per Litre	11000	11	121000
	23.0	RAIN WATER HARVESTING & TUBEWELLS				
	23.1S	General				
	23.1	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer-in-charge, upto 90 metre depth below ground level.				
	23.1.2	Rocky strata including Boulders				
26	23.1.2.1	300 mm dia	Metre	450	1695.1	762795

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	23.2	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer -in-charge, beyond 90 metre & upto 150 metre depth below ground level.				
	23.2.2	Rocky strata including Boulders				
27	23.2.2.1	300 mm dia	Metre	150	1870.6	280590
	23.3	Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC medium well casing (CM) pipe of required dia, conforming to IS: 12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer -in-charge.				
28	23.3.3	200 mm nominal size dia	Metre	450	1113.35	501007.5
					Total	9621512.75
Item- 4	(Details for Construction of 7m wide road)					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
	2.0	EARTH WORK				
	2.1S	General				
	2.6	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and for all lift, as directed by Engineer-in-charge.				
1	2.6.1	All kinds of soil	cum	1405	177.5	249387.5
2	2.25A	Excavating, supplying and filling of local earth (including royalty) by mechanical transport upto a lead of 5km also including ramming and watering of the earth in layers not exceeding 20 cm in trenches, plinth, sides of foundation etc. complete.	cum	180	700.5	126090
3	2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	cum	7.2	2123.75	15291
	4.0	CONCRETE WORK				
	4.1S	CEMENT CONCRETE (CAST IN SITU)				
	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
4	4.1.2	1:1 1/2:3 (1 Cement: 1 1/2 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	20	8340.85	166817
5	4.1.3	1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	7.2	7878.5	56725.2
6	4.1.5	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)	cum	502.5	7294.7	3665586.75
	4.3	Centering and shuttering including strutting, propping etc. and removal of form work for :				
7	4.3.1	Foundations, footings, bases for columns	Sqm	27	392.15	10588.05

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	4.10S	DAMP-PROOF COURSE				
8	4.11	Providing and laying damp-proof course 50mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20mm nominal size derived from natural sources).	Sqm	22.5	495.75	11154.38
	5.0	REINFORCEMENT CEMENT CONCRETE				
	5.1S	CAST IN SITU				
	5.1	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :				
9	5.1.2	1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	107	9045.75	967895.25
	5.2	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement :				
10	5.2.2	1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	7.2	10852.95	78141.24
11	5.3	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15 degree landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	cum	27	11505.5	310648.5
	5.9S	FORM WORK				
	5.9	Centering and shuttering including strutting, propping etc. and removal of form for				
12	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete	Sqm	1520	392.15	596068
13	5.9.3	Suspended floors, roofs, landings, balconies and access platform	Sqm	180	927.25	166905
14	5.9.5	Lintels, beams, plinth beams, girders, bressummers and cantilevers	Sqm	387	736.4	284986.8
15	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts	Sqm	90	961.3	86517
	5.12S	PRE-CAST RCC				
16	5.12	Providing, hoisting and fixing above plinth level up to floor five level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like, including the cost of required centering, shuttering but , excluding cost of reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	cum	.9	10585.9	9527.31

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	5.22S	STEEL REINFORCEMENT				
	5.22	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.				
17	5.22.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	9450	107.85	1019182.5
	5.22A	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.				
18	5.22A.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	4950	107.85	533857.5
	6.0	MASONRY WORK				
	6.1S	General				
	6.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				
19	6.1.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	10.8	7132.25	77028.3
	6.4	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 :				
20	6.4.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	45	9105.95	409767.75
	9.0	WOOD AND P.V.C. WORK				
	9.105S	GYPSUM BOARD PARTITIONS				
	9.165	Providing and fixing bright /matt finished Stainless Steel handles of approved quality & make with necessary screws etc all complete.				
21	9.165.1	125 mm	Each	3.6	119.2	429.12
	10.0	STEEL WORK				
	10.1S	General				
	10.25	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.				
22	10.25.2	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	Kg	378	172.6	65242.8
	11.0	FLOORING				
	11.1S	General				
	11.3	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete.				
23	11.3.1	40 mm thick with 20 mm nominal size stone aggregate	Sqm	157.5	614.2	96736.5
	12.0	ROOFING				
	12.37S	RAIN WATER SPOUT AND PIPE				
	12.41	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.				
24	12.41.2	110 mm diameter	Metre	18	377.4	6793.2
	13.0	FINISHING				
	13.1S	CEMENT PLASTER (IN FINE SAND)				
	13.1	12 mm cement plaster of mix :				

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25	13.1.1	1:4 (1 cement: 4 fine sand)	Sqm	189	347.05	65592.45
	13.4S	CEMENT PLASTER (IN COARSE SAND)				
	13.5	15 mm cement plaster on rough side of single or half brick wall of mix:				
26	13.5.2	1:6 (1 cement: 6 coarse sand)	Sqm	180	395.35	71163
	13.20S	PEBBLE DASH PLASTER				
27	13.26	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	Sqm	189	262.7	49650.3
	13.37S	INTERIOR FINISHING				
	13.41	Distempering with 1st quality acrylic distemper (ready mixed) having VOC content less than 50 gram/litre, of approved manufacturer and of required shade and colour all complete to achieve even shade and colour :				
28	13.41.1	New work (two or more coats) over and including water thinnable priming coat with cement primer having VOC content less than 50 gram/litre	Sqm	189	185.65	35087.85
	13.44S	EXTERIOR FINISHING				
	13.44	Finishing walls with water proofing cement paint of required shade :				
29	13.44.1	New work (Two or more coats applied @ 3.84 kg/10 sqm)	Sqm	180	116.9	21042
	13.48	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :				
30	13.48.3	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @ 0.80 ltr/10 sqm of approved brand and manufacture	Sqm	45	170.7	7681.5
	16.0	ROAD WORK				
	16.1S	ROADS				
31	16.1	Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth with lead upto 50 metres.	Sqm	15220	218.9	3331658
	16.3	Supplying and stacking at site.				
32	16.3.1	90 mm to 45 mm size stone aggregate	cum	165	2098.4	346236
33	16.3.2	63 mm to 45 mm size stone aggregate	cum	165	1636.05	269948.25
34	16.3.10	Moorum	cum	35	768.25	26888.75
35	16.4	Laying, spreading and compacting stone aggregate of specified sizes to WBM specifications in uniform thickness, hand picking, rolling with 3 wheeled road/vibratory roller 8-10 tonne capacity in stages to proper grade and camber, applying and brooming requisite type of screening / binding material to fill up interstices of coarse aggregate, watering and compacting to the required density .	cum	360	1046.95	376902

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36	16.9	Scarifying metalled (water-bound) road surface including disposal of rubbish, lead upto 50 m and consolidation of the aggregate received from scarifying with power road roller of 8 to 10 tonne capacity.	Sqm	3490	33.3	116217
	16.25S	SURFACE DRESSING				
37	16.25	Surface dressing on new surface with paving bitumen of grade VG - 10 of approved quality using 2.25 kg of bitumen per sqm with 1.65 cum of stone chippings 13.2 mm nominal size per 100 sqm of road surface, including consolidation with road roller of 6 to 8 tonne capacity etc. complete:	Sqm	3490	225.35	786471.5
38	16.26	Surface dressing on new surface in two coats with bitumen of grade VG -10 of approved quality using 1.8 kg of bitumen per sqm with 1.5 cum of stone chippings 13.2 mm nominal size per 100 sqm of road surface for first coat and 1.1 kg. of bitumen per sqm with 1.00 cu. metre of stone chippings 11.2 mm nominal size per 100 sqm of road surface for second coat, including consolidation of each coat separately with road roller of 6 to 8 tonne capacity etc. complete.	Sqm	6000	311.85	1871100
	16.30S	PREMIX CARPET				
	16.30	Providing and applying tack coat using hot straight run bitumen of grade VG - 10, including heating the bitumen, spraying the bitumen with mechanically operated spray unit fitted on bitumen boiler, cleaning and preparing the existing road surface as per specifications :				
39	16.30.1	On W.B.M. @ 0.75 Kg / sqm	Sqm	3490	60.5	211145
	16.36	Providing and laying Bitumen Penetration Macadam with hard stone aggregate of quality, size and grading as specified, with bitumen of suitable penetration grade, including required key aggregate as specified, spreading coarse aggregate with the help of self propelled/ tipper tail mounted aggregate spreader and applying bitumen by a pressure distributor and then spreading key aggregate with the help of aggregate spreader complete, including consolidation with road roller of minimum 8 to 10 tonne capacity to achieve specified values of compaction and surface accuracy :				
40	16.36.1	For 50 mm compacted thickness using coarse aggregate of size 50-20 mm graded @ 0.60 cum per 10 sqm key aggregate of size 12.5 mm graded @ 0.15 cum per 10 sqm. With paving asphalt grade VG - 10 @ 50 kg/ 10 sqm.	Sqm	6000	505.65	3033900

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	16.37	Providing and laying bitumen mastic wearing course (as per specifications) with industrial bitumen of grade 85/25 conforming to IS : 702, prepared by using mastic cooker and laid to required level and slope, including providing antiskid surface with bitumen precoated fine grained hard stone chipping of approved size at the rate of 0.005 cum per 10 sqm and at approximate spacing of 10 cm centre to centre in both directions, pressed into surface protruding 1 mm to 4 mm over mastic surface, including cleaning the surface, removal of debris etc. all complete. (Considering bitumen using 10.2% as per MORTH specification).				
41	16.37.1	25 mm thick	Sqm	3490	854.15	2980983.5
	16.40S	SEAL COAT				
42	16.41	Providing and laying seal coat over prepared surface of road with bitumen heated in bitumen boiler fitted with the spray set spraying using 98 kg of bitumen of grade VG - 10 and blinding surface with 0.90 cum of stone aggregate of 6.7 mm size (Passing 11.2 mm sieve and retained on 2.36 mm sieve) per 100 sqm of road surface, including rolling and finishing with power road roller all complete..	Sqm	6000	130.85	785100
	16.42S	CONCRETE PAVEMENTS				
	16.43	Providing and laying design mix cement concrete of M-30 grade, in roads/taxi tracks/ runways, using cement content as per design mix, using coarse sand and graded stone aggregate of 40 mm nominal size in appropriate proportions as per approved and specified design criteria, providing dowel bars with sleeve/ tie bars wherever required, laying at site, spreading and compacting mechanically by using needle and surface vibrators, levelling to required slope/ camber, finishing with required texture, including steel form work with sturdy M.S. channel sections, curing, making provision for contraction/ expansion, construction and longitudinal joints (10 mm wide x 50 mm deep) by groove cutting machine, providing and filling joints with approved joint filler and sealants, complete all as per direction of Engineer-in-charge (Item of joint fillers, sealants, dowel bars with sleeve/ tie bars to be paid separately).				
43	16.43.1	Cement concrete prepared with batch mixing machine	cum	1843.5	10529.35	19410856.73
	16.47S	PAINTING AREA/RUNWAY MARKING				
	16.48	Painting road surface marking with adequate nos of coats to give uniform finish with ready mixed road marking paint conforming to IS : 164, on bituminous surface in white/yellow shade, including cleaning the surface of all dirt, scales, oil, grease and foreign material etc. complete.				
44	16.48.1	New work (Two or more coats)	Sqm	160	288.9	46224
	16.49S	MISCELLANEOUS				

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45	16.62	Providing and applying 2.5 mm thick road marking strips (retro- reflective) of specified shade/ colour using hot thermoplastic material by fully/ semi automatic thermoplastic paint applicator machine fitted with profile shoe, glass beads dispenser, propane tank heater and profile shoe heater, driven by experienced operator on road surface including cost of material, labour, T&P, cleaning the road surface of all dirt, seals, oil, grease and foreign material etc. complete as per direction of Engineer-in-charge and accordance with applicable specifications.	Sqm	233	747.8	174237.4
46	16.68	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.	Sqm	2198	972	2136456
47	16.69	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured to calculate volume for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	cum	41.5	10117.6	419880.4
	16.78	Construction of granular sub-base by providing close graded Material conforming to specifications, mixing in a mechanical mix plant at OMC, carriage of mixed material by tippers to work site, for all leads & lifts, spreading in uniform layers of specified thickness with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge.				
48	16.78.1	With material conforming to Grade-I (size range 75 mm to 0.075 mm) having CBR Value-30	cum	3634	2784	10117056
	26.0	NEW TECHNOLOGIES AND MATERIALS				
	26.41S	NEW TECHNOLOGY ITEMS				
49	26.72	Providing and laying 60mm thick factory made cement concrete paver block of approved shape and colour of M -30 grade made of C&D waste by block making machine with vibratory compaction laid in required pattern and including over 50mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge.	Sqm	45	829.75	37338.75
					Total	55740183.03
Item- 5 (Green Patches and landscaping)						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
	2.0	EARTH WORK				

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	2.1S	General				
	2.1	Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including getting out and disposal of excavated earth upto 50 m and lift upto 1.5 m, as directed by Engineer-in- Charge:				
1	2.1.1	All kinds of soil	Sqm	152	129.85	19737.2
	2.6	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and for all lift, as directed by Engineer-in-charge.				
2	2.6.1	All kinds of soil	cum	475	177.5	84312.5
3	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 and for all lift.	cum	285	196	55860
4	2.25A	Excavating, supplying and filling of local earth (including royalty) by mechanical transport upto a lead of 5km also including ramming and watering of the earth in layers not exceeding 20 cm in trenches, plinth, sides of foundation etc. complete.	cum	170	700.5	119085
5	2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	cum	38	2123.75	80702.5
	4.0	CONCRETE WORK				
	4.1S	CEMENT CONCRETE (CAST IN SITU)				
	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
6	4.1.2	1:1 1/2:3 (1 Cement: 1 1/2 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	28.5	8340.85	237714.23
	5.0	REINFORCEMENT CEMENT CONCRETE				
	5.1S	CAST IN SITU				
	5.1	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :				
7	5.1.2	1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	28.5	9045.75	257803.88
	26.0	NEW TECHNOLOGIES AND MATERIALS				
	26.41S	NEW TECHNOLOGY ITEMS				
8	26.72	Providing and laying 60mm thick factory made cement concrete paver block of approved shape and colour of M -30 grade made of C&D waste by block making machine with vibratory compaction laid in required pattern and including over 50mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge.	Sqm	447.5	829.75	371313.13
					Total	1226528.44
Item- 6	(Parking Area)					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

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	2.0	EARTH WORK				
	2.1S	General				
	2.1	Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including getting out and disposal of excavated earth upto 50 m and lift upto 1.5 m, as directed by Engineer-in- Charge:				
1	2.1.1	All kinds of soil	Sqm	400	129.85	51940
	2.6	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and for all lift, as directed by Engineer-in-charge.				
2	2.6.1	All kinds of soil	cum	250	177.5	44375
3	2.25A	Excavating, supplying and filling of local earth (including royalty) by mechanical transport upto a lead of 5km also including ramming and watering of the earth in layers not exceeding 20 cm in trenches, plinth, sides of foundation etc. complete.	cum	16743	700.5	11728471.5
	4.0	CONCRETE WORK				
	4.1S	CEMENT CONCRETE (CAST IN SITU)				
	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
4	4.1.3	1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	50	7878.5	393925
5	4.1.5	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)	cum	973	7294.7	7097743.1
	4.2	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor etc., up to floor five level, excluding the cost of centering, shuttering and finishing:				
6	4.2.3	1:2:4 (1 Cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	1010	9895.2	9994152
	6.0	MASONRY WORK				
	6.1S	General				
	6.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				
7	6.1.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	18	7132.25	128380.5
	16.0	ROAD WORK				
	16.30S	PREMIX CARPET				

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	16.37	Providing and laying bitumen mastic wearing course (as per specifications) with industrial bitumen of grade 85/25 conforming to IS : 702, prepared by using mastic cooker and laid to required level and slope, including providing antiskid surface with bitumen precoated fine grained hard stone chipping of approved size at the rate of 0.005 cum per 10 sqm and at approximate spacing of 10 cm centre to centre in both directions, pressed into surface protruding 1 mm to 4 mm over mastic surface, including cleaning the surface, removal of debris etc. all complete. (Considering bitumen using 10.2% as per MORTH specification).				
8	16.37.2	40 mm thick	Sqm	420	1365.5	573510
	16.425	CONCRETE PAVEMENTS				
	16.43	Providing and laying design mix cement concrete of M-30 grade, in roads/taxi tracks/ runways, using cement content as per design mix, using coarse sand and graded stone aggregate of 40 mm nominal size in appropriate proportions as per approved and specified design criteria, providing dowel bars with sleeve/ tie bars wherever required, laying at site, spreading and compacting mechanically by using needle and surface vibrators, levelling to required slope/ camber, finishing with required texture, including steel form work with sturdy M.S. channel sections, curing, making provision for contraction/ expansion, construction and longitudinal joints (10 mm wide x 50 mm deep) by groove cutting machine, providing and filling joints with approved joint filler and sealants, complete all as per direction of Engineer-in-charge (Item of joint fillers, sealants, dowel bars with sleeve/ tie bars to be paid separately).				
9	16.43.1	Cement concrete prepared with batch mixing machine	cum	600	10529.35	6317610
	16.495	MISCELLANEOUS				
10	16.68	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.	Sqm	500	972	486000
	16.78	Construction of granular sub-base by providing close graded Material conforming to specifications, mixing in a mechanical mix plant at OMC, carriage of mixed material by tippers to work site, for all leads & lifts, spreading in uniform layers of specified thickness with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge.				
11	16.78.1	With material conforming to Grade-I (size range 75 mm to 0.075 mm) having CBR Value-30	cum	2719	2784	7569696

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	16.91	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.				
12	16.91.2	80 mm thick C.C. paver block of M-30 grade with approved color design and pattern.	Sqm	64.8	1091.5	70729.2
					Total	44456532.30
Item- 7 (Pathway 3m wide & Boulder pitching)						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
	2.0	EARTH WORK				
	2.1S	General				
	2.1	Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including getting out and disposal of excavated earth upto 50 m and lift upto 1.5 m, as directed by Engineer-in- Charge:				
1	2.1.1	All kinds of soil	Sqm	3000	129.85	389550
	2.6	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and for all lift, as directed by Engineer-in-charge.				
2	2.6.1	All kinds of soil	cum	180	177.5	31950
	4.0	CONCRETE WORK				
	4.1S	CEMENT CONCRETE (CAST IN SITU)				
	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
3	4.1.5	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)	cum	105	7294.7	765943.5
	16.0	ROAD WORK				
	16.1S	ROADS				
4	16.1	Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth with lead upto 50 metres.	Sqm	1050	218.9	229845
	16.49S	MISCELLANEOUS				

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5	16.68	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.	Sqm	1050	972	1020600
6	16.69	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured to calculate volume for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	cum	21	10117.6	212469.6
7	16.72	Supplying and stacking of hard stone (for stone pitching) 22.5 cm thick at site.	cum	1288	995.85	1282654.8
8	16.73	Dry stone pitching 22.5 cm thick laid in courses and required profile with hammer dressed stones having no side less than 15 cm, with minimum depth of 20 cm including preparing the bedding surface etc. all complete. (Payment for Stone to be made separately).	Sqm	5600	659.05	3690680
	16.78	Construction of granular sub-base by providing close graded Material conforming to specifications, mixing in a mechanical mix plant at OMC, carriage of mixed material by tippers to work site, for all leads & lifts, spreading in uniform layers of specified thickness with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge.				
9	16.78.1	With material conforming to Grade-I (size range 75 mm to 0.075 mm) having CBR Value-30	cum	105	2784	292320
	19.0	DRAINAGE				
	19.1S	STONE WARE PIPES AND FITTINGS				
	19.35	Providing and laying Non Pressure NP-3 class (Medium duty) R.C.C. pipes including collars/spigot jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete				
10	19.35.1	450 mm dia RCC pipes.	Metre	300	2676.55	802965
					Total	8718977.90
Item- 8	(fly ash brick work boundary wall 150 m)					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
	2.0	EARTH WORK				
	2.1S	General				

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	2.8	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, for all lift, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
1	2.8.1	All kinds of soil.	cum	41.81	260.3	10883.14
2	2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	cum	2.06	2123.75	4374.93
	2.28	Surface dressing of the ground including removing vegetation and in-equalities not exceeding 15 cm deep and disposal of rubbish, lead up to 50 m and lift up to 1.5 m.				
3	2.28.1	All kinds of soil	Sqm	141.52	34.15	4832.91
4	2.32	Clearing grass and removal of the rubbish up to a distance of 50 m outside the periphery of the area cleared.	Sqm	1342.5	8.95	12015.38
	4.0	CONCRETE WORK				
	4.1S	CEMENT CONCRETE (CAST IN SITU)				
	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
5	4.1.3	1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	8.36	7878.5	65864.26
	4.3	Centering and shuttering including strutting, propping etc. and removal of form work for :				
6	4.3.1	Foundations, footings, bases for columns	Sqm	99.71	392.15	39101.28
7	4.3.3	Columns, piers, abutments, pillars, posts and struts	Sqm	180.12	961.3	173149.36
	5.0	REINFORCEMENT CEMENT CONCRETE				
	5.1S	CAST IN SITU				
	5.1	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :				
8	5.1.3	1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	17.9	8583.4	153642.86
	5.2	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement :				
9	5.2.2	1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	13.43	10852.95	145755.12
	5.9S	FORM WORK				
	5.9	Centering and shuttering including strutting, propping etc. and removal of form for				

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10	5.9.5	Lintels, beams, plinth beams, girders, bressummers and cantilevers	Sqm	199.42	736.4	146852.89
	5.22S	STEEL REINFORCEMENT				
	5.22	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.				
11	5.22.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	1790	107.85	193051.5
	6.0	MASONRY WORK				
	6.1S	General				
	6.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				
12	6.1.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	26.85	7132.25	191500.91
	6.26S	EXPOSED BRICK WALL				
	6.32	Brick work with clay flyash F.P.S. (non modular) brick of class designation 7.5 in superstructure above plinth level up to floor five level in :				
13	6.32.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	134.25	9095.05	1221010.46
	10.0	STEEL WORK				
	10.1S	General				
14	10.2	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	Kg	4502.97	133.7	602047.09
	13.0	FINISHING				
	13.1S	CEMENT PLASTER (IN FINE SAND)				
	13.1	12 mm cement plaster of mix :				
15	13.1.2	1:6 (1 cement: 6 fine sand)	Sqm	581.75	333.35	193926.36
	13.2	15 mm cement plaster on the rough side of single or half brick wall of mix :				
16	13.2.2	1:6 (1 cement: 6 fine sand)	Sqm	581.75	383	222810.25
	13.37S	INTERIOR FINISHING				
	13.39	Colour washing such as green, blue or buff to give an even shade :				
17	13.39.1	New work (two or more coats) with a base coat of white washing with lime	Sqm	1253	53.3	66784.9
	13.44S	EXTERIOR FINISHING				
	13.61	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
18	13.61.1	Two or more coats on new work	Sqm	192.98	155.9	30085.58
	16.0	ROAD WORK				
	16.49S	MISCELLANEOUS				

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19	16.53	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)	Metre	385.97	375.8	145047.53
					Total	3622736.71
Item- 9 (boundary wall , Platform Surfacing)						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
	2.0	EARTH WORK				
	2.1S	General				
	2.6	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and for all lift, as directed by Engineer-in-charge.				
1	2.6.1	All kinds of soil	cum	228	177.5	40470
	2.8	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, for all lift, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
2	2.8.1	All kinds of soil.	cum	162	260.3	42168.6
3	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 and for all lift.	cum	70	196	13720
4	2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	cum	22	2123.75	46722.5
	2.28	Surface dressing of the ground including removing vegetation and in-equalities not exceeding 15 cm deep and disposal of rubbish, lead up to 50 m and lift up to 1.5 m.				
5	2.28.1	All kinds of soil	Sqm	270	34.15	9220.5
6	2.32	Clearing grass and removal of the rubbish up to a distance of 50 m outside the periphery of the area cleared.	Sqm	540	8.95	4833
	4.0	CONCRETE WORK				
	4.1S	CEMENT CONCRETE (CAST IN SITU)				
	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				

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7	4.1.3	1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	5.4	7878.5	42543.9
8	4.1.5	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)	cum	17	7294.7	124009.9
	4.2	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor etc., up to floor five level, excluding the cost of centering, shuttering and finishing:				
9	4.2.3	1:2:4 (1 Cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	47	9895.2	465074.4
	4.3	Centering and shuttering including strutting, propping etc. and removal of form work for :				
10	4.3.1	Foundations, footings, bases for columns	Sqm	108	392.15	42352.2
11	4.3.3	Columns, piers, abutments, pillars, posts and struts	Sqm	13.5	961.3	12977.55
	4.5S	CEMENT CONCRETE PRECAST				
	4.6	Providing and fixing at or near ground level precast cement concrete in kerbs, edgings etc. as per approved pattern and setting in position with cement mortar 1:3 (1 Cement : 3 coarse sand), including the cost of required centering, shuttering complete.				
12	4.6.1	1:1 1/2:3 (1 Cement: 1 1/2 coarse sand (zone-III) derived from natural sources: 3 graded stone aggregate 20 mm nominal size derived from natural sources).	cum	8	8726.85	69814.8
	4.10S	DAMP-PROOF COURSE				
13	4.13	Providing & applying a coat of residual petroleum bitumen of grade of VG-10 of approved quality using 1.7 kg per square metre on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.	Sqm	10.5	146.15	1534.58
	5.0	REINFORCEMENT CEMENT CONCRETE				
	5.1S	CAST IN SITU				
	5.1	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :				
14	5.1.2	1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	20	9045.75	180915
15	5.1.3	1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	22.5	8583.4	193126.5

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	5.2	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement :				
16	5.2.2	1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	53.5	10852.95	580632.83
	5.9S	FORM WORK				
	5.9	Centering and shuttering including strutting, propping etc. and removal of form for				
17	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete	Sqm	607	392.15	238035.05
18	5.9.5	Lintels, beams, plinth beams, girders, bressummers and cantilevers	Sqm	227.5	736.4	167531
19	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts	Sqm	304	961.3	292235.2
	5.12S	PRE-CAST RCC				
20	5.12	Providing, hoisting and fixing above plinth level up to floor five level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like, including the cost of required centering, shuttering but , excluding cost of reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	cum	64.5	10585.9	682790.55
	5.22S	STEEL REINFORCEMENT				
	5.22	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.				
21	5.22.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	4480	107.85	483168
	5.22A	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.				
22	5.22A.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	8600	107.85	927510
	6.0	MASONRY WORK				
	6.1S	General				
	6.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				
23	6.1.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	15	7132.25	106983.75
	6.26S	EXPOSED BRICK WALL				
	6.32	Brick work with clay flyash F.P.S. (non modular) brick of class designation 7.5 in superstructure above plinth level up to floor five level in :				
24	6.32.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	252.2	9095.05	2293771.61
	11.0	FLOORING				
	11.16S	TILE FLOORING				

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	11.20	Chequered precast cement concrete tiles 22 mm thick in footpath & courtyard, jointed with neat cement slurry mixed with pigment to match the shade of tiles, including rubbing and cleaning etc. complete, on 20 mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand).				
25	11.20.1	Light shade pigment using white cement	Sqm	21	1402	29442
	11.26S	KOTA STONE FLOORING				
	11.26	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) :				
26	11.26.1	25 mm thick	Sqm	70	1948.25	136377.5
	13.0	FINISHING				
	13.1S	CEMENT PLASTER (IN FINE SAND)				
	13.2	15 mm cement plaster on the rough side of single or half brick wall of mix :				
27	13.2.2	1:6 (1 cement: 6 fine sand)	Sqm	2625	383	1005375
	13.37S	INTERIOR FINISHING				
	13.39	Colour washing such as green, blue or buff to give an even shade :				
28	13.39.1	New work (two or more coats) with a base coat of white washing with lime	Sqm	810	53.3	43173
	13.44S	EXTERIOR FINISHING				
	13.44	Finishing walls with water proofing cement paint of required shade :				
29	13.44.1	New work (Two or more coats applied @ 3.84 kg/10 sqm)	Sqm	1815	116.9	212173.5
	16.0	ROAD WORK				
	16.49S	MISCELLANEOUS				
30	16.53	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)	Metre	135	375.8	50733
					Total	8539415.42
Item- 10	(RCC BOX extension , RCC covered drain & Side drain)					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
	2.0	EARTH WORK				
	2.1S	General				
	2.6	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and for all lift, as directed by Engineer-in-charge.				

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1	2.6.1	All kinds of soil	cum	8143.32	177.5	1445439.3
	4.0	CONCRETE WORK				
	4.1S	CEMENT CONCRETE (CAST IN SITU)				
	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
2	4.1.2	1:1 1/2:3 (1 Cement: 1 1/2 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	513	8340.85	4278856.05
3	4.1.5	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)	cum	137	7294.7	999373.9
4	4.1.6	1:3:6 (1 Cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 40 mm nominal size derived from natural sources)	cum	22.5	7178.75	161521.88
5	4.1.8	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)	cum	31.5	6812	214578
	5.0	REINFORCEMENT CEMENT CONCRETE				
	5.1S	CAST IN SITU				
	5.1	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :				
6	5.1.2	1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	2853	9045.75	25807524.75
	5.2	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement :				
7	5.2.2	1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	1367.4	10852.95	14840323.83
	5.9S	FORM WORK				
	5.9	Centering and shuttering including strutting, propping etc. and removal of form for				
8	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete	Sqm	18597	392.15	7292813.55
9	5.9.2	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	Sqm	2895	842.5	2439037.5
	5.22S	STEEL REINFORCEMENT				
	5.22	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.				
10	5.22.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	247290	107.85	26670226.5
	5.22A	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.				

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11	5.22A.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	70450	107.85	7598032.5
					Total	91747727.76
Item- 11	(Concourse area & face uplifting)					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
	2.0	EARTH WORK				
	2.1S	General				
	2.6	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and for all lift, as directed by Engineer-in-charge.				
1	2.6.1	All kinds of soil	cum	507.5	177.5	90081.25
2	2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	cum	45.63	2123.75	96906.71
	4.0	CONCRETE WORK				
	4.1S	CEMENT CONCRETE (CAST IN SITU)				
	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
3	4.1.3	1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	165.25	7878.5	1301922.13
	5.0	REINFORCEMENT CEMENT CONCRETE				
	5.1S	CAST IN SITU				
	5.1	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :				
4	5.1.2	1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	9.8	9045.75	88648.35
	5.2	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement :				
5	5.2.2	1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	11.7	10852.95	126979.52
	5.22S	STEEL REINFORCEMENT				
	5.22	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.				
6	5.22.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	1067.5	107.85	115129.88
	5.22A	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.				
7	5.22A.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	300	107.85	32355
	6.0	MASONRY WORK				

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	6.1S	General				
	6.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				
8	6.1.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	38.25	7132.25	272808.56
	6.4	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 :				
9	6.4.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	24.5	9105.95	223095.78
	8.0	CLADDING WORK				
	8.1S	General				
	8.14	Stone work (machine cut edges) for wall lining etc. (veneer work) upto 10 metre height, backing filled with a grout of average 12 mm thick cement mortar 1:3 (1 cement : 3 coarse sand) including pointing in white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade : (To be secured to the backing and the sides by means of cramps and pins which shall be paid for separately) :				
	8.14.2	Red sand stone - Exposed face machine cut and table rubbed with rough backing.				
10	8.14.2.5	30 mm thick	Sqm	832.5	7515.8	6256903.5
	10.0	STEEL WORK				
	10.1S	General				
11	10.28	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, including fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).	Kg	3975	772.4	3070290
	11.0	FLOORING				
	11.41S	VITRIFIED FLOOR TILES				
	11.55	Providing and laying flamed finish Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge :				
12	11.55.1	Flamed finish granite stone slab Jet Black, Cherry Red, Elite Brown, Cat Eye or equivalent.	Sqm	342.5	3186.7	1091444.75
	13.0	FINISHING				

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	13.1S	CEMENT PLASTER (IN FINE SAND)				
	13.2	15 mm cement plaster on the rough side of single or half brick wall of mix :				
13	13.2.2	1:6 (1 cement: 6 fine sand)	Sqm	1960	383	750680
	13.20S	PEBBLE DASH PLASTER				
14	13.26	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	Sqm	1237.5	262.7	325091.25
	13.44S	EXTERIOR FINISHING				
	13.61	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
15	13.61.1	Two or more coats on new work	Sqm	248	155.9	38663.2
	13.81	Distemping with 1st quality acrylic distemper, having VOC (Volatile Organic Compound) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour.				
16	13.81.1	Old work (one or more coats)	Sqm	624	62.7	39124.8
17	13.91	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.	Sqm	614	25.15	15442.1
	13.112	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade				
18	13.112.1	Old work (Two or more coats applied @ 1.43 ltr/ 10 sqm) over existing cement paint surface	Sqm	1770	131.3	232401
	16.0	ROAD WORK				
	16.30S	PREMIX CARPET				
	16.37	Providing and laying bitumen mastic wearing course (as per specifications) with industrial bitumen of grade 85/25 conforming to IS : 702, prepared by using mastic cooker and laid to required level and slope, including providing antiskid surface with bitumen precoated fine grained hard stone chipping of approved size at the rate of 0.005 cum per 10 sqm and at approximate spacing of 10 cm centre to centre in both directions, pressed into surface protruding 1 mm to 4 mm over mastic surface, including cleaning the surface, removal of debris etc. all complete. (Considering bitumen using 10.2% as per MORTH specification).				
19	16.37.2	40 mm thick	Sqm	4225	1365.5	5769237.5
	16.47S	PAINTING AREA/RUNWAY MARKING				
	16.48	Painting road surface marking with adequate nos of coats to give uniform finish with ready mixed road marking paint conforming to IS : 164, on bituminous surface in white/yellow shade, including cleaning the surface of all dirt, scales, oil, grease and foreign material etc. complete.				
20	16.48.1	New work (Two or more coats)	Sqm	1882.5	288.9	543854.25
	16.49S	MISCELLANEOUS				

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	16.60	Manufacturing, supplying and fixing retro reflective overhead signage boards made up of 2 mm thick aluminium sheet, face to be fully covered with high intensity and encapsulated lens type heat activated retro reflective sheeting conforming to type - III of ASTM-D-4956-01 as approved by Engineer-in-charge, letters, borders etc. as per IRC : 67-2001 in silver white with blue colour back ground and with high intensity grade, pasted on substrate by pressure sensitive adhesive backing which shall be activated by applying pressure conforming to class II of ASTM-D-4956-01 and fixing the same to the plate of structural frame work by means of suitable sized aluminium alloys, rivets or bolts & nuts @ 300 mm centre to centre all along the periphery as well as in two vertical rows along with theft resistant measures, including the cost of painting with two or more coats of epoxy paint in grey colour on the back side of aluminium sheet including appropriate priming coat. The rate includes the cost of rounding off the corners, lowering down the structural frame work from the gantry, fixing and erecting the same in position all complete as per drawings, specification and direction of the engineer-in-charge. (Structural frame work including M.S. plate to be provided separately. Rectangular area of the sheet only shall be measured for payment).				
21	16.60.1	Overhead informatory road signage	Sqm	347.5	5879.9	2043265.25
22	16.68	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.	Sqm	863.75	972	839565
23	16.69	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured to calculate volume for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	cum	62.75	10117.6	634879.4
					Total	23998769.18
Item- 12	(Construction of precast PSC segment boundary wall)					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
	2.0	EARTH WORK				
	2.1S	General				

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	2.6	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and for all lift, as directed by Engineer-in-charge.				
1	2.6.1	All kinds of soil	cum	5686	177.5	1009265
	4.0	CONCRETE WORK				
	4.1S	CEMENT CONCRETE (CAST IN SITU)				
	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
2	4.1.3	1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	900	7878.5	7090650
	4.2	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor etc., up to floor five level, excluding the cost of centering, shuttering and finishing:				
3	4.2.3	1:2:4 (1 Cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	3932.5	9895.2	38912874
	5.0	REINFORCEMENT CEMENT CONCRETE				
	5.9S	FORM WORK				
	5.9	Centering and shuttering including strutting, propping etc. and removal of form for				
4	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete	Sqm	34116	392.15	13378589.4
	5.12S	PRE-CAST RCC				
5	5.14	Providing, hoisting and fixing above plinth level up to floor five level precast reinforced cement concrete in mouldings as in cornices, windows sills etc, including setting in cement mortar 1:3 (1 cement : 3 coarse sand) cost of required centering, shuttering but, excluding the cost of reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	cum	533	18234.95	9719228.35
	5.22S	STEEL REINFORCEMENT				
	5.22	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.				
6	5.22.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	50850	107.85	5484172.5
	10.0	STEEL WORK				
	10.1S	General				
	10.25	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.				

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7	10.25.2	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	Kg	116500	172.6	20107900
	16.0	ROAD WORK				
	16.15S	FENCING				
	16.17	Fencing with R.C.C. post placed at required distance, embedded in cement concrete blocks, every 15th post, last but one end post and corner post shall be struttred on both sides and end post one side only, provided with horizontal lines and two diagonals of barbed wire weighing 9.38 kg per 100 metres (minimum), between the two posts fitted and fixed with G.I. staples on wooden plugs or G.I. binding wire tied to 6 mm bar nibs fixed while casting the post (cost of R.C.C. posts, struts, earth work and concrete to be paid for separately) :- Payment to be made per metre cost of total length of barbed wire used.				
8	16.17.1	With G.I. barbed wire	Metre	107980	14	1511720
					Total	97214399.25
Item- 13	(Construction of Fois office, store, Weigh bridge room RPF office, waiting hall, store, running room and others) as Railways office.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
	2.0	EARTH WORK				
	2.1S	General				
	2.6	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and for all lift, as directed by Engineer-in-charge.				
1	2.6.1	All kinds of soil	cum	393	177.5	69757.5
2	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 and for all lift.	cum	15	196	2940
3	2.25A	Excavating, supplying and filling of local earth (including royalty) by mechanical transport upto a lead of 5km also including ramming and watering of the earth in layers not exceeding 20 cm in trenches, plinth, sides of foundation etc. complete.	cum	8050	700.5	5639025
4	2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	cum	35	2123.75	74331.25
	4.0	CONCRETE WORK				
	4.1S	CEMENT CONCRETE (CAST IN SITU)				
	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
5	4.1.2	1:1 1/2:3 (1 Cement: 1 1/2 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	10	8340.85	83408.5
6	4.1.3	1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	39	7878.5	307261.5

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7	4.1.5	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)	cum	26	7294.7	189662.2
	4.2	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor etc., up to floor five level, excluding the cost of centering, shuttering and finishing:				
8	4.2.3	1:2:4 (1 Cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	12	9895.2	118742.4
	4.3	Centering and shuttering including strutting, propping etc. and removal of form work for :				
9	4.3.1	Foundations, footings, bases for columns	Sqm	35	392.15	13725.25
	4.10S	DAMP-PROOF COURSE				
10	4.11	Providing and laying damp-proof course 50mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20mm nominal size derived from natural sources).	Sqm	9	495.75	4461.75
	5.0	REINFORCEMENT CEMENT CONCRETE				
	5.1S	CAST IN SITU				
	5.1	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :				
11	5.1.2	1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	45	9045.75	407058.75
	5.2	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement :				
12	5.2.2	1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	27	10852.95	293029.65
13	5.3	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15 degree landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	cum	38	11505.5	437209
	5.9S	FORM WORK				

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	5.9	Centering and shuttering including strutting, propping etc. and removal of form for				
14	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete	Sqm	277	392.15	108625.55
15	5.9.3	Suspended floors, roofs, landings, balconies and access platform	Sqm	1624	927.25	1505854
16	5.9.5	Lintels, beams, plinth beams, girders, bressummers and cantilevers	Sqm	849	736.4	625203.6
17	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts	Sqm	445	961.3	427778.5
18	5.9.7	Stairs, (excluding landings) except spiral-staircases	Sqm	47	764.95	35952.65
	5.22S	STEEL REINFORCEMENT				
	5.22	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.				
19	5.22.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	21000	107.85	2264850
	5.22A	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.				
20	5.22A.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	31050	107.85	3348742.5
	5.33S	DESIGN MIX CONCRETE				
	5.33	Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced 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, finishing and reinforcement as per direction of the engineer-in-charge, for the following grades of concrete.:				
	5.33.1	All works upto plinth level				
21	5.33.1.1	Concrete of M25 grade with minimum cement content of 330 kg /cum	cum	346	9504.75	3288643.5
	5.33.2	All works above plinth level upto floor V level				
22	5.33.2.1	Concrete of M25 grade with minimum cement content of 330 kg /cum	cum	286	9860.4	2820074.4
	6.0	MASONRY WORK				
	6.1S	General				
	6.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				
23	6.1.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	53.5	7132.25	381575.38
	6.2	Brick work with common burnt clay modular bricks of class designation 7.5 in foundation and plinth in:				
24	6.2.2	Cement Mortar 1:6 (1 cement : 6 coarse sand).	cum	12	6295.15	75541.8

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	6.4	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 :				
25	6.4.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	6	9344.35	56066.1
26	6.4.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	490	9105.95	4461915.5
	6.12S	HALF BRICK MASONRY				
	6.12	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in :				
27	6.12.2	cement mortar 1:4 (1 cement : 4 coarse sand)	Sqm	115	905.05	104080.75
	6.13	Half brick masonry 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.				
28	6.13.2	Cement mortar 1:4 (1 cement :4 coarse sand)	Sqm	303	1123.8	340511.4
	8.0	CLADDING WORK				
	8.1S	General				
	8.2	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 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				
	8.2.1	Raj Nagar Plain white marble/ Udaipur green marble/ Zebra black marble				
29	8.2.1.1	Area of slab upto 0.50 sqm	Sqm	5	3414.8	17074
30	8.2.1.2	Area of slab over 0.50 sqm	Sqm	5	3078.4	15392
	8.2.2	Granite stone slab colour black, Cherry/Ruby red				
31	8.2.2.2	Area of slab over 0.50 sqm	Sqm	21	5136.3	107862.3
	8.3	Providing edge moulding to 18 mm thick marble stone counters, Vanities etc., including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.				
32	8.3.2	Granite work	Metre	4	510.95	2043.8
	8.20S	STONE WORK DRY CLADDING				
33	8.31	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	Sqm	75	1267.95	95096.25
	9.0	WOOD AND P.V.C. WORK				
	9.1S	FRAMES AND TRUSSES				

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	9.20	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.				
34	9.20.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	Sqm	87	3473.85	302224.95
35	9.20.2	30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	Sqm	8	3167.95	25343.6
	9.40S	MISCELLANEOUS-WOOD WORK				
	9.47	Providing and fixing nickel plated M.S. pipe curtain rods with nickel plated brackets :				
36	9.47.2	25 mm dia (heavy type)	Metre	8	186.4	1491.2
	9.48	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.				
37	9.48.1	Fixed to steel windows by welding	Kg	240	219.1	52584
	9.55S	BRIGHT FINISHED M.S. FITTINGS				
	9.55	Providing and fixing ISI marked IS:1341 M.S. pressed butt hinges bright finished with necessary screws etc. complete :				
38	9.55.1	125x65x2.12 mm	Each	15	53	795
	9.70S	STAINLESS STEEL FITTINGS				
	9.71	Providing and fixing IS : 12817 marked stainless steel butt hinges (heavy weight) with stainless steel screws etc. complete :				
39	9.71.1	125x64x2.50 mm	Each	12	129.85	1558.2
	9.72S	BRASS FITTINGS				
40	9.85	Providing and fixing bright finished brass casement window fastener with necessary screws etc. complete.	Each	10	89	890
	9.95S	ANODISED ALUMINIUM FITTINGS (ALL FITTINGS SHALL BE ISI MARKED)				
	9.97	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :				
41	9.97.2	250x10 mm	Each	98	115.15	11284.7
42	9.97.4	150x10 mm	Each	192	82.55	15849.6
	9.105S	GYPSUM BOARD PARTITIONS				
	9.118	Providing and fixing to existing door frames.				

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43	9.118.1	24 mm thick factory made PVC door shutters made of styles and rails of a uPVC hollow section of size 59x24 mm and wall thickness 2 mm (+/- 0.2 mm) with inbuilt edging on both sides. The styles and rails mitred and joint at the corners by means of M.S. galvanised/ plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 20x20 mm and 1 mm (+/- 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x24 mm and 2 mm (+/- 0.2 mm) wall thickness, fixed to the shutter styles by means of plastic/galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm (+/- 0.1 mm) wall thickness. The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutter).	Sqm	5	2969.25	14846.25
44	9.119	Providing and fixing factory made P.V.C. door frame of size 50x47 mm with a wall thickness of 5 mm, made out of extruded 5 mm rigid PVC foam sheet, mitred at corners and joined with 2 Nos of 150 mm long brackets of 15x15 mm M.S. square tube, the vertical door frame profiles to be reinforced with 19x19 mm M.S. square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame. The door frame to be fixed to the wall using M.S. screws of 65/100 mm size, complete as per manufacturer's specification and direction of Engineer- in-Charge.	Metre	185	492.7	91149.5

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	9.120	Providing and fixing factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19 mm x 19 mm for styles and 15x15 mm for top & bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture. M.S. frame covered with 5 mm thick heat moulded PVC 'C' channel of size 30 mm thickness, 70 mm width out of which 50 mm shall be flat and 20 mm shall be tapered in 45 degree angle on both side forming styles and 5 mm thick, 95 mm wide PVC sheet out of which 75mm shall be flat and 20 mm shall be tapered in 45 degree on the inner side to form top and bottom rail and 115 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered on both sides to form lock rail. Top, bottom and lock rails shall be provided both side of the panel. 10 mm (5 mm x 2) thick, 20 mm wide cross PVC sheet be provided as gap insert for top rail & bottom rail, panelling of 5 mm thick both side PVC sheet to be fitted in the M.S. frame welded/ sealed to the styles & rails with 7 mm (5 mm+2 mm) thick x 15 mm wide PVC sheet beading on inner side, and joined together with solvent cement adhesive. An additional 5 mm thick PVC strip of 20 mm width is to be stuck on the interior side of the 'C' Channel using PVC solvent adhesive etc. complete as per direction of Engineer-in-charge, manufacturer's specification & drawing.				
45	9.120.1	30 mm thick plain PVC door shutters	Sqm	59.3	3182.95	188748.94
46	9.121	Providing and fixing Fiber Glass Reinforced plastic (FRP) Door Frames of cross-section 90 mm x 45 mm having single rebate of 32mm x 15 mm to receive shutter of 30 mm thickness. The laminate shall be moulded with fire resistant grade unsaturated polyester resin and chopped mat. Door frame laminate shall be 2 mm thick and shall be filled with suitable wooden block in all the three legs. The frame shall be covered with fiber glass from all sides. M.S. stay shall be provided at the bottom to steady the frame.	Metre	59.3	570.95	33857.34
	9.165	Providing and fixing bright /matt finished Stainless Steel handles of approved quality & make with necessary screws etc all complete.				
47	9.165.1	125 mm	Each	170	119.2	20264
	10.0	STEEL WORK				
	10.1S	General				
48	10.2	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	Kg	1185	133.7	158434.5

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49	10.3	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2 mm and braced with flat iron diagonals 20x5 mm size, with top and bottom rail of T-iron 40x40x6 mm, with 40 mm dia steel pulleys, complete with bolts, nuts, locking arrangement, stoppers, handles, including applying a priming coat of approved steel primer.	Sqm	15.15	11439.6	173309.94
	10.25	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.				
50	10.25.2	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	Kg	208	172.6	35900.8
51	10.28	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, including fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).	Kg	634	772.4	489701.6
52	10.31	Providing and fixing angle iron frames for doors, windows and ventilators of mild steel Angle sections of size 35x35x5 mm, joints mitred and welded by angle iron 35x35x5 mm or 35x 5 mm flat pieces to the existing T-iron frame or to the wall with dash fastener, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer, all complete as per the direction of Engineer-In-charge.	Kg	150	130.5	19575
	11.0	FLOORING				
	11.15	General				
53	11.7	Cement concrete pavement with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), including finishing complete.	cum	6	8595.15	51570.9
	11.37S	CERAMIC GLAZED TILES				
54	11.37	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), Jointing with grey cement slurry @ 3.3 kg/sqm including pointing the joints with white cement and matching pigment etc., complete.	Sqm	136	1096.55	149130.8

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55	11.37A	Providing and fixing 1st quality ceramic glazed floor tiles conforming to IS : 15622 (thickness to be specified by the manufacturer) of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge in skirting, risers of steps and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement: 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete.	Sqm	370	1112.7	411699
56	11.39	Providing and laying rectified Glazed Ceramic floor tiles of size 300x300 mm or more (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in colours 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 grouting the joints with white cement and matching pigments etc., complete.	Sqm	12	1330	15960
	11.41S	VITRIFIED FLOOR TILES				
	11.41	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete.				
57	11.41.2	Size of Tile 600x600 mm	Sqm	103	1553.45	160005.35
	11.41A	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.				
	11.41A.3	Glazed Vitrified tiles Matt/Antiskid finish of size				
58	11.41A.3.1	Size of Tile 600 x 600 mm	Sqm	1220	1464.85	1787117
	11.46	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete.				
59	11.46.1	Size of Tile 500x500 mm	Sqm	33.2	1593.9	52917.48

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60	11.46.2	Size of Tile 600x600 mm	Sqm	13	1623.05	21099.65
	11.55	Providing and laying flamed finish Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge :				
61	11.55.1	Flamed finish granite stone slab Jet Black, Cherry Red, Elite Brown, Cat Eye or equivalent.	Sqm	15	3186.7	47800.5
	12.0	ROOFING				
	12.37S	RAIN WATER SPOUT AND PIPE				
	12.41	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.				
62	12.41.2	110 mm diameter	Metre	171	377.4	64535.4
	13.0	FINISHING				
	13.1S	CEMENT PLASTER (IN FINE SAND)				
	13.1	12 mm cement plaster of mix :				
63	13.1.2	1:6 (1 cement: 6 fine sand)	Sqm	3684	333.35	1228061.4
	13.4S	CEMENT PLASTER (IN COARSE SAND)				
	13.4	12 mm cement plaster of mix :				
64	13.4.1	1:4 (1 cement: 4 coarse sand)	Sqm	460	357.35	164381
	13.5	15 mm cement plaster on rough side of single or half brick wall of mix:				
65	13.5.2	1:6 (1 cement: 6 coarse sand)	Sqm	3306	395.35	1307027.1
	13.20S	PEBBLE DASH PLASTER				
66	13.26	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	Sqm	5985	262.7	1572259.5
	13.37S	INTERIOR FINISHING				
	13.41	Distemping with 1st quality acrylic distemper (ready mixed) having VOC content less than 50 gram/litre, of approved manufacturer and of required shade and colour all complete to achieve even shade and colour :				
67	13.41.1	New work (two or more coats) over and including water thinnable priming coat with cement primer having VOC content less than 50 gram/litre	Sqm	460	185.65	85399
	13.44S	EXTERIOR FINISHING				
	13.44	Finishing walls with water proofing cement paint of required shade :				
68	13.44.1	New work (Two or more coats applied @ 3.84 kg/10 sqm)	Sqm	175	116.9	20457.5
	13.48	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :				

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69	13.48.3	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @ 0.80 ltr/10 sqm of approved brand and manufacture	Sqm	6010	170.7	1025907
	13.63	Painting with aluminium paint of approved brand and manufacture to give an even shade .				
70	13.63.1	Two or more coats on new work	Sqm	90	146.8	13212
	17.0	SANITARY INSTALLATIONS				
	17.15	General				
	17.1	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:				
71	17.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	Each	11	6767.4	74441.4
	17.2	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required :				
72	17.2.1	W.C. pan with ISI marked white solid plastic seat and lid	Each	11	6515.55	71671.05
	17.7	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:				
73	17.7.1	White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps	Each	34	2648.85	90060.9
	17.10	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS:13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required :				
	17.10.2	Kitchen sink without drain board				
74	17.10.2.1	610x510 mm bowl depth 200 mm	Each	4	4940.8	19763.2
	17.28	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.				
	17.28.2	Flexible pipe				
75	17.28.2.1	32 mm dia	Each	5	119.55	597.75
	17.32	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing :				
76	17.32.3	Oval shape 450x350 mm (outer dimensions)	Each	22	1377.1	30296.2
	17.35	Providing and fixing soil, waste and vent pipes :				

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	17.35.2	75 mm diameter :				
77	17.35.2.1	Sand cast iron S&S pipe as per IS: 1729	Metre	172	1044.75	179697
	17.36	Providing and filling the joints with spun yarn, cement slurry and cement mortar 1:2 (1 cement : 2 fine sand) in S.C.I./ C.I. Pipes :				
78	17.36.1	75 mm dia pipe	Each	37	168.2	6223.4
79	17.71	Providing and fixing PTMT liquid soap container 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour, weighing not less than 105 gms.	Each	22	168.35	3703.7
	17.73	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour.				
80	17.73.1	450 mm long towel rail with total length of 495 mm, 78 mm wide and effective height of 88 mm, weighing not less than 170 gms	Each	20	673.4	13468
	18.0	WATER SUPPLY				
	18.4S	PP-R PIPES				
	18.4	Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes confirming to IS 15801, UV stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings and fixing the pipe with clamps at 1.00 m spacing. This includes testing of joints complete as per direction of Engineer-in-Charge. (Internal Exposed on walls)				
81	18.4.2	PN - 16 Pipe, 25mm OD (SDR-7.4)	Metre	100	318.35	31835
82	18.4.4	PN - 16 Pipe, 40mm OD (SDR-7.4)	Metre	160	545.75	87320
	18.6	Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes confirming to IS:15801 UV stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings, including trenching, refilling & testing of joints complete as per direction of Engineer-in-Charge. External work				
83	18.6.4	PN - 16 Pipe, 40 mm OD (SDR-7.4)	Metre	30	415.1	12453
	18.6A	Providing and fixing PPR Unions				
84	18.6A.1	PPR Union 20mm	Each	2	315.5	631
85	18.6A.2	PPR Union 25mm	Each	2	334	668
86	18.6A.3	PPR Union 32mm	Each	2	403.7	807.4
87	18.6A.4	PPR Union 40mm	Each	2	543.1	1086.2
	18.7S	C.P.V.C. PIPES				
	18.8	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings and fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc.				

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88	18.8.1	15 mm nominal dia Pipes	Metre	245	497.8	121961
	18.12	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. External work				
89	18.12.6	50 mm dia nominal bore	Metre	40	762.15	30486
90	18.12.7	65 mm dia nominal bore	Metre	30	896.6	26898
	18.15S	BRASS FITTINGS				
	18.16	Providing and fixing brass stop cock of approved quality :				
91	18.16.1	15 mm nominal bore	Each	5	353.25	1766.25
	18.31S	C.I. SLUICE VALVES/ FIRE HYDRANTS & FIXTURES				
92	18.48	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	Per Litre	18000	11	198000
	18.49S	C.P. BRASS FITTINGS				
	18.49	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :				
93	18.49.1	15 mm nominal bore	Each	10	506.8	5068
	18.54S	PTMT FITTINGS				
	18.54	Providing and fixing PTMT bib cock of approved quality and colour.				
94	18.54.1	15 mm nominal bore, 86 mm long, weighing not less than 88 gms	Each	40	125.6	5024
	21.0	ALUMINIUM WORK				
	21.1S	General				
	21.1	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, panelling and dash fasteners to be paid for separately) :				
	21.1.1	For fixed portion				
95	21.1.1.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	Kg	340	495.05	168317
96	21.1.1.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	Kg	50	530.9	26545
	21.1.2	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately)				

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97	21.1.2.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	Kg	300	598.6	179580
	21.3	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item):				
98	21.3.1	With float glass panes of 4.0 mm thickness (weight not less than 10kg/sqm)	Sqm	96	1176.8	112972.8
					Total	39041187.68
Item- 14	(Construction of Platform shelters)					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
	1.0	CARRIAGE OF MATERIALS				
	1.1	By Mechanical Transport including loading, unloading and stacking				
	1.1.2	Earth				
1	1.1.2.1	1km	cum	439	217.55	95504.45
	2.0	EARTH WORK				
	2.1S	General				
	2.6	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and for all lift, as directed by Engineer-in-charge.				
2	2.6.1	All kinds of soil	cum	1339	177.5	237672.5
3	2.25A	Excavating, supplying and filling of local earth (including royalty) by mechanical transport upto a lead of 5km also including ramming and watering of the earth in layers not exceeding 20 cm in trenches, plinth, sides of foundation etc. complete.	cum	286	700.5	200343
4	2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	cum	74.5	2123.75	158219.38
	4.0	CONCRETE WORK				
	4.1S	CEMENT CONCRETE (CAST IN SITU)				
	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
5	4.1.5	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)	cum	179.2	7294.7	1307210.24
	4.2	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor etc., up to floor five level, excluding the cost of centering, shuttering and finishing:				
6	4.2.3	1:2:4 (1 Cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	300	9895.2	2968560

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	4.3	Centering and shuttering including strutting, propping etc. and removal of form work for :				
7	4.3.1	Foundations, footings, bases for columns	Sqm	900	392.15	352935
	4.10S	DAMP-PROOF COURSE				
8	4.11	Providing and laying damp-proof course 50mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20mm nominal size derived from natural sources).	Sqm	57	495.75	28257.75
	5.0	REINFORCEMENT CEMENT CONCRETE				
	5.1S	CAST IN SITU				
	5.1	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :				
9	5.1.2	1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	120	9045.75	1085490
	5.9S	FORM WORK				
	5.9	Centering and shuttering including strutting, propping etc. and removal of form for				
10	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete	Sqm	1082	392.15	424306.3
11	5.9.3	Suspended floors, roofs, landings, balconies and access platform	Sqm	115	927.25	106633.75
12	5.9.5	Lintels, beams, plinth beams, girders, bressummers and cantilevers	Sqm	315	736.4	231966
13	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts	Sqm	588	961.3	565244.4
	5.22S	STEEL REINFORCEMENT				
	5.22	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.				
14	5.22.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	29318	107.85	3161946.3
	5.22A	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.				
15	5.22A.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	1718	107.85	185286.3
	5.33S	DESIGN MIX CONCRETE				
	5.33	Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced 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, finishing and reinforcement as per direction of the engineer-in-charge, for the following grades of concrete.:				
	5.33.1	All works upto plinth level				

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16	5.33.1.1	Concrete of M25 grade with minimum cement content of 330 kg /cum	cum	172	9504.75	1634817
	5.33.2	All works above plinth level upto floor V level				
17	5.33.2.1	Concrete of M25 grade with minimum cement content of 330 kg /cum	cum	14.5	9860.4	142975.8
	6.0	MASONRY WORK				
	6.1S	General				
	6.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				
18	6.1.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	250	7132.25	1783062.5
	6.4	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 :				
19	6.4.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	86	9105.95	783111.7
	6.12S	HALF BRICK MASONRY				
	6.12	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in :				
20	6.12.2	cement mortar 1:4 (1 cement : 4 coarse sand)	Sqm	57	905.05	51587.85
	8.0	CLADDING WORK				
	8.1S	General				
	8.2	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 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				
	8.2.2	Granite stone slab colour black, Cherry/Ruby red				
21	8.2.2.2	Area of slab over 0.50 sqm	Sqm	460	5136.3	2362698
	10.0	STEEL WORK				
	10.1S	General				
22	10.1	Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	Kg	45593	117.35	5350338.55
23	10.2	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	Kg	204114	133.7	27290041.8
24	10.19	Providing and fixing mild steel round holding down bolts with nuts and washer plates complete.	Kg	3000	97.2	291600
25	10.20	Providing and fixing bolts including nuts and washers complete.	Kg	3000	159.35	478050

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	10.25	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.				
26	10.25.2	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	Kg	1500	172.6	258900
	11.0	FLOORING				
	11.1S	General				
	11.3	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete.				
27	11.3.1	40 mm thick with 20 mm nominal size stone aggregate	Sqm	584	614.2	358692.8
	11.16S	TILE FLOORING				
	11.20	Chequered precast cement concrete tiles 22 mm thick in footpath & courtyard, jointed with neat cement slurry mixed with pigment to match the shade of tiles, including rubbing and cleaning etc. complete, on 20 mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand).				
28	11.20.1	Light shade pigment using white cement	Sqm	1380	1402	1934760
	11.41S	VITRIFIED FLOOR TILES				
	11.55	Providing and laying flamed finish Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge :				
29	11.55.1	Flamed finish granite stone slab Jet Black, Cherry Red, Elite Brown, Cat Eye or equivalent.	Sqm	2300	3186.7	7329410
	12.0	ROOFING				
	12.37S	RAIN WATER SPOUT AND PIPE				

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30	12.50	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) of total coated thickness 0.50 mm (base metal of minimum 0.45 mm thickness with total coating thickness of 0.05 mm) 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.	Sqm	4827	738.65	3565463.55
	12.51	Providing and fixing precoated galvanised steel sheet roofing accessories of total coated thickness 0.50 mm (base metal of minimum 0.45 mm thickness with total coating thickness of 0.05 mm) with Zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/ self tapping screws complete :				
31	12.51.1	Ridges plain (500 - 600mm)	Metre	29	532.35	15438.15
32	12.51.6	Gutter (600 mm over all girth)	Metre	368	1313.7	483441.6
	13.0	FINISHING				
	13.1S	CEMENT PLASTER (IN FINE SAND)				
	13.1	12 mm cement plaster of mix :				
33	13.1.2	1:6 (1 cement: 6 fine sand)	Sqm	916	333.35	305348.6
	13.2	15 mm cement plaster on the rough side of single or half brick wall of mix :				
34	13.2.2	1:6 (1 cement: 6 fine sand)	Sqm	1664	383	637312
	13.16S	6 mm CEMENT PLASTER				
35	13.18	Neat cement punning.	Sqm	129	79.95	10313.55
	13.44S	EXTERIOR FINISHING				
	13.44	Finishing walls with water proofing cement paint of required shade :				
36	13.44.1	New work (Two or more coats applied @ 3.84 kg/10 sqm)	Sqm	286	116.9	33433.4
	13.61	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
37	13.61.1	Two or more coats on new work	Sqm	1300	155.9	202670
	13.63	Painting with aluminium paint of approved brand and manufacture to give an even shade .				
38	13.63.1	Two or more coats on new work	Sqm	4600	146.8	675280
	16.0	ROAD WORK				
	16.49S	MISCELLANEOUS				

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	16.91	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.				
39	16.91.1	60mm thick cement concrete paver block of M-35 grade with approved colour, design & pattern.	Sqm	2300	1045.65	2404995
	18.0	WATER SUPPLY				
	18.4S	PP-R PIPES				
	18.6	Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes confirming to IS:15801 UV stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings, including trenching, refilling & testing of joints complete as per direction of Engineer-in-Charge. External work				
40	18.6.6	PN - 10 Pipe, 63 mm OD (SDR-11)	Metre	286	597.75	170956.5
	18.7S	C.P.V.C. PIPES				
	18.9	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. External work				
41	18.9.3	25 mm nominal dia Pipes	Metre	29	355.4	10306.6
	18.23S	C.I./DUCTILE IRON PIPES & SPECIALS				
	18.27	Providing and laying S&S centrifugally cast (spun) iron pipes (Class LA) conforming to IS - 1536 :				
42	18.27.3	150 mm dia pipe	Metre	368	2037	749616
	18.49S	C.P. BRASS FITTINGS				
	18.49	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :				
43	18.49.1	15 mm nominal bore	Each	11	506.8	5574.8
					Total	70429771.12
Item- 15	(Facade improvement)					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
	2.0	EARTH WORK				
	2.1S	General				
	2.6	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and for all lift, as directed by Engineer-in-charge.				
1	2.6.1	All kinds of soil	cum	100	177.5	17750

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2	2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	cum	3	2123.75	6371.25
	4.0	CONCRETE WORK				
	4.1S	CEMENT CONCRETE (CAST IN SITU)				
	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
3	4.1.3	1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	30	7878.5	236355
	5.0	REINFORCEMENT CEMENT CONCRETE				
	5.1S	CAST IN SITU				
	5.1	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :				
4	5.1.2	1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	2	9045.75	18091.5
	5.2	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement :				
5	5.2.2	1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	3	10852.95	32558.85
	5.22S	STEEL REINFORCEMENT				
	5.22	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.				
6	5.22.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	300	107.85	32355
	6.0	MASONRY WORK				
	6.1S	General				
	6.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				
7	6.1.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	6	7132.25	42793.5
	6.4	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 :				
8	6.4.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	4	9105.95	36423.8
	8.0	CLADDING WORK				
	8.1S	General				

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	8.14	Stone work (machine cut edges) for wall lining etc. (veneer work) upto 10 metre height, backing filled with a grout of average 12 mm thick cement mortar 1:3 (1 cement : 3 coarse sand) including pointing in white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade : (To be secured to the backing and the sides by means of cramps and pins which shall be paid for separately) :				
	8.14.2	Red sand stone - Exposed face machine cut and table rubbed with rough backing.				
9	8.14.2.5	30 mm thick	Sqm	150	7515.8	1127370
	10.0	STEEL WORK				
	10.1S	General				
10	10.28	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, including fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).	Kg	600	772.4	463440
	11.0	FLOORING				
	11.41S	VITRIFIED FLOOR TILES				
	11.55	Providing and laying flamed finish Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge :				
11	11.55.1	Flamed finish granite stone slab Jet Black, Cherry Red, Elite Brown, Cat Eye or equivalent.	Sqm	100	3186.7	318670
	13.0	FINISHING				
	13.1S	CEMENT PLASTER (IN FINE SAND)				
	13.2	15 mm cement plaster on the rough side of single or half brick wall of mix :				
12	13.2.2	1:6 (1 cement: 6 fine sand)	Sqm	400	383	153200
	13.20S	PEBBLE DASH PLASTER				
13	13.26	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	Sqm	100	262.7	26270
	13.37S	INTERIOR FINISHING				

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	13.41	Distemping with 1st quality acrylic distemper (ready mixed) having VOC content less than 50 gram/litre, of approved manufacturer and of required shade and colour all complete to achieve even shade and colour :				
14	13.41.1	New work (two or more coats) over and including water thinnable priming coat with cement primer having VOC content less than 50 gram/litre	Sqm	200	185.65	37130
	13.44S	EXTERIOR FINISHING				
	13.61	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
15	13.61.1	Two or more coats on new work	Sqm	50	155.9	7795
16	13.91	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.	Sqm	100	25.15	2515
	13.112	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade				
17	13.112.1	Old work (Two or more coats applied @ 1.43 ltr/ 10 sqm) over existing cement paint surface	Sqm	300	131.3	39390
	16.0	ROAD WORK				
	16.30S	PREMIX CARPET				
	16.37	Providing and laying bitumen mastic wearing course (as per specifications) with industrial bitumen of grade 85/25 conforming to IS : 702, prepared by using mastic cooker and laid to required level and slope, including providing antiskid surface with bitumen precoated fine grained hard stone chipping of approved size at the rate of 0.005 cum per 10 sqm and at approximate spacing of 10 cm centre to centre in both directions, pressed into surface protruding 1 mm to 4 mm over mastic surface, including cleaning the surface, removal of debris etc. all complete. (Considering bitumen using 10.2% as per MORTH specification).				
18	16.37.2	40 mm thick	Sqm	600	1365.5	819300
	16.47S	PAINTING AREA/RUNWAY MARKING				
	16.48	Painting road surface marking with adequate nos of coats to give uniform finish with ready mixed road marking paint conforming to IS : 164, on bituminous surface in white/yellow shade, including cleaning the surface of all dirt, scales, oil, grease and foreign material etc. complete.				
19	16.48.1	New work (Two or more coats)	Sqm	24	288.9	6933.6
	16.49S	MISCELLANEOUS				

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	16.60	Manufacturing, supplying and fixing retro reflective overhead signage boards made up of 2 mm thick aluminium sheet, face to be fully covered with high intensity and encapsulated lens type heat activated retro reflective sheeting conforming to type - III of ASTM-D-4956-01 as approved by Engineer-in-charge, letters, borders etc. as per IRC : 67-2001 in silver white with blue colour back ground and with high intensity grade, pasted on substrate by pressure sensitive adhesive backing which shall be activated by applying pressure conforming to class II of ASTM-D-4956-01 and fixing the same to the plate of structural frame work by means of suitable sized aluminium alloys, rivets or bolts & nuts @ 300 mm centre to centre all along the periphery as well as in two vertical rows along with theft resistant measures, including the cost of painting with two or more coats of epoxy paint in grey colour on the back side of aluminium sheet including appropriate priming coat. The rate includes the cost of rounding off the corners, lowering down the structural frame work from the gantry, fixing and erecting the same in position all complete as per drawings, specification and direction of the engineer-in-charge. (Structural frame work including M.S. plate to be provided separately. Rectangular area of the sheet only shall be measured for payment).				
20	16.60.1	Overhead informatory road signage	Sqm	50	5879.9	293995
21	16.68	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.	Sqm	200	972	194400
22	16.69	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured to calculate volume for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	cum	10	10117.6	101176
					Total	4014283.50
Item- 16 (dismantling and Demolition)						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
	15.0	DISMANTLING AND DEMOLISHING				
	15.1S	General				
	15.2	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.				

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1	15.2.1	Nominal concrete 1:3:6 or richer mix (including equivalent design mix)	cum	372.98	2434.25	907926.57
2	15.6	Extra for scrapping, cleaning and straightening reinforcement from R.C.C. or R.B. work.	Kg	53.4	9.05	483.27
	15.7	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.				
3	15.7.4	In cement mortar	cum	1531.73	2060.2	3155670.15
	15.12	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead :				
4	15.12.1	Of area 3 sq. metres and below	Each	1511.03	367.2	554850.22
	15.13	Taking out doors, windows and clerestory window shutters (steel or wood) including stacking within 50 metres lead :				
5	15.13.1	Of area 3 sq. metres and below	Each	1511.03	143.5	216832.81
	15.14	Dismantling wood work in frames, trusses, purlins and rafters up to 10 metres span and 5 metres height including stacking the material within 50 metres lead :				
6	15.14.2	Of sectional area below 40 square centimetres	Metre	1259.55	17.85	22482.97
	15.17	Dismantling steel work in single sections including dismembering and stacking within 50 metres lead in:				
7	15.17.1	R.S. Joists	Kg	31527.22	3.4	107192.55
8	15.17.2	Channels, angles, tees and flats	Kg	31527.22	2.3	72512.61
9	15.18	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 metres lead.	Kg	89502.22	5.65	505687.54
	15.23	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.				
10	15.23.1	For thickness of tiles 10 mm to 25 mm	Sqm	3780.07	73.4	277457.14
	15.28	Dismantling roofing including ridges, hips, valleys and gutters etc., and stacking the material within 50 metres lead of:				
11	15.28.1	G.S. Sheet	Sqm	1258.89	164.95	207653.91
12	15.28.2	Asbestos Cement sheet	Sqm	6329.94	77.3	489304.36
	15.44	Dismantling G.I. pipes (external work) including excavation and refilling trenches after taking out the pipes, manually/ by mechanical means including stacking of pipes within 50 metres lead as per direction of Engineer-in-charge :				
13	15.44.1	15 mm to 40 mm nominal bore	Metre	3152.72	149.8	472277.46
14	15.52	Dismantling of flushing cistern of all types (C.I./PVC/Vitreous China) including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead.	Each	252.34	112.05	28274.7

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15	15.58	Demolishing R.C.C. work by mechanical means and stockpiling at designated locations and disposal of dismantled materials up to a lead of 1 kilometre, stacking serviceable and unserviceable material separately including cutting reinforcement bars.	cum	639.74	2818.9	1803363.09
16	15.60	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.	cum	3631.67	263.95	958579.3
					Total	9780548.65
Item- 17	(Service building, Sub ordinate rest house with B/W)					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
	2.0	EARTH WORK				
	2.1S	General				
	2.6	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and for all lift, as directed by Engineer-in-charge.				
1	2.6.1	All kinds of soil	cum	1702	177.5	302105
	2.7	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-charge.				
2	2.7.1	Ordinary rock	cum	125	498.9	62362.5
3	2.25A	Excavating, supplying and filling of local earth (including royalty) by mechanical transport upto a lead of 5km also including ramming and watering of the earth in layers not exceeding 20 cm in trenches, plinth, sides of foundation etc. complete.	cum	18785	700.5	13158892.5
4	2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	cum	306	2123.75	649867.5
	4.0	CONCRETE WORK				
	4.1S	CEMENT CONCRETE (CAST IN SITU)				
	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
5	4.1.2	1:1 1/2:3 (1 Cement: 1 1/2 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	40	8340.85	333634
6	4.1.3	1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	220.7	7878.5	1738784.95
7	4.1.5	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)	cum	263	7294.7	1918506.1
	4.10S	DAMP-PROOF COURSE				

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8	4.11	Providing and laying damp-proof course 50mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20mm nominal size derived from natural sources).	Sqm	314.8	495.75	156062.1
	5.0	REINFORCEMENT CEMENT CONCRETE				
	5.1S	CAST IN SITU				
	5.1	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :				
9	5.1.2	1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	352.8	9045.75	3191340.6
	5.2	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement :				
10	5.2.2	1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	276.5	10852.95	3000840.68
11	5.3	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15 degree landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	cum	770.8	11505.5	8868439.4
	5.9S	FORM WORK				
	5.9	Centering and shuttering including strutting, propping etc. and removal of form for				
12	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete	Sqm	1040	392.15	407836
13	5.9.3	Suspended floors, roofs, landings, balconies and access platform	Sqm	3381	927.25	3135032.25
14	5.9.5	Lintels, beams, plinth beams, girders, bressummers and cantilevers	Sqm	3089	736.4	2274739.6
15	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts	Sqm	2206	961.3	2120627.8
	5.22S	STEEL REINFORCEMENT				
	5.22	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.				
16	5.22.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	45700	107.85	4928745
	5.22A	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.				
17	5.22A.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	97700	107.85	10536945

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	5.33S	DESIGN MIX CONCRETE				
	5.33	Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced 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, finishing and reinforcement as per direction of the engineer-in-charge, for the following grades of concrete.:				
	5.33.1	All works upto plinth level				
18	5.33.1.1	Concrete of M25 grade with minimum cement content of 330 kg /cum	cum	27	9504.75	256628.25
	5.33.2	All works above plinth level upto floor V level				
19	5.33.2.1	Concrete of M25 grade with minimum cement content of 330 kg /cum	cum	45	9860.4	443718
	6.0	MASONRY WORK				
	6.1S	General				
	6.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				
20	6.1.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	164.3	7132.25	1171828.68
	6.4	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 :				
21	6.4.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	877	9105.95	7985918.15
	6.12S	HALF BRICK MASONRY				
	6.12	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in :				
22	6.12.2	cement mortar 1:4 (1 cement : 4 coarse sand)	Sqm	5	905.05	4525.25
	6.13	Half brick masonry 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.				
23	6.13.2	Cement mortar 1:4 (1 cement :4 coarse sand)	Sqm	230.8	1123.8	259373.04
	6.26S	EXPOSED BRICK WALL				
	6.34	Brick work with non modular fly ash bricks conforming to IS:12894, class designation 10 average compressive strength in super structure above plinth level up to floor V level in :				
24	6.34.2	Cement mortar 1:6 (1 cement : 6 Coarse sand)	cum	170	8752.55	1487933.5
	6.45	Half brick masonry with non modular fly ash bricks of class designation 10, conforming to IS :12894, in super structure above plinth and upto floor V level				
25	6.45.2	Cement mortar 1 : 4 (1 cement : 4 coarse sand)	Sqm	245	1105.8	270921
	8.0	CLADDING WORK				

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	8.1S	General				
	8.2	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 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				
	8.2.2	Granite stone slab colour black, Cherry/Ruby red				
26	8.2.2.2	Area of slab over 0.50 sqm	Sqm	231	5136.3	1186485.3
	8.3	Providing edge moulding to 18 mm thick marble stone counters, Vanities etc., including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.				
27	8.3.1	Marble work	Metre	924	298.6	275906.4
	9.0	WOOD AND P.V.C. WORK				
	9.1S	FRAMES AND TRUSSES				
	9.20	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.				
28	9.20.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	Sqm	228	3473.85	792037.8
	9.40S	MISCELLANEOUS-WOOD WORK				
	9.48	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.				
29	9.48.1	Fixed to steel windows by welding	Kg	6130	219.1	1343083
	9.95S	ANODISED ALUMINIUM FITTINGS (ALL FITTINGS SHALL BE ISI MARKED)				
	9.97	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :				
30	9.97.2	250x10 mm	Each	852	115.15	98107.8
31	9.97.4	150x10 mm	Each	516	82.55	42595.8
	9.105S	GYPSUM BOARD PARTITIONS				

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32	9.119	Providing and fixing factory made P.V.C. door frame of size 50x47 mm with a wall thickness of 5 mm, made out of extruded 5 mm rigid PVC foam sheet, mitred at corners and joined with 2 Nos of 150 mm long brackets of 15x15 mm M.S. square tube, the vertical door frame profiles to be reinforced with 19x19 mm M.S. square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame. The door frame to be fixed to the wall using M.S. screws of 65/100 mm size, complete as per manufacturer's specification and direction of Engineer- in-Charge.	Metre	590	492.7	290693
	9.120	Providing and fixing factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19 mm x 19 mm for styles and 15x15 mm for top & bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture. M.S. frame covered with 5 mm thick heat moulded PVC 'C' channel of size 30 mm thickness, 70 mm width out of which 50 mm shall be flat and 20 mm shall be tapered in 45 degree angle on both side forming styles and 5 mm thick, 95 mm wide PVC sheet out of which 75mm shall be flat and 20 mm shall be tapered in 45 degree on the inner side to form top and bottom rail and 115 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered on both sides to form lock rail. Top, bottom and lock rails shall be provided both side of the panel. 10 mm (5 mm x 2) thick, 20 mm wide cross PVC sheet be provided as gap insert for top rail & bottom rail, panelling of 5 mm thick both side PVC sheet to be fitted in the M.S. frame welded/ sealed to the styles & rails with 7 mm (5 mm+2 mm) thick x 15 mm wide PVC sheet beading on inner side, and joined together with solvent cement adhesive. An additional 5 mm thick PVC strip of 20 mm width is to be stuck on the interior side of the 'C' Channel using PVC solvent adhesive etc. complete as per direction of Engineer-in-charge, manufacturer's specification & drawing.				
33	9.120.1	30 mm thick plain PVC door shutters	Sqm	237	3182.95	754359.15
	9.165	Providing and fixing bright /matt finished Stainless Steel handles of approved quality & make with necessary screws etc all complete.				
34	9.165.1	125 mm	Each	872	119.2	103942.4
	10.0	STEEL WORK				
	10.15	General				
35	10.1	Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	Kg	7050	117.35	827317.5
36	10.2	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	Kg	21150	133.7	2827755

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37	10.3	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2 mm and braced with flat iron diagonals 20x5 mm size, with top and bottom rail of T-iron 40x40x6 mm, with 40 mm dia steel pulleys, complete with bolts, nuts, locking arrangement, stoppers, handles, including applying a priming coat of approved steel primer.	Sqm	63.05	11439.6	721266.78
	10.25	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.				
38	10.25.2	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	Kg	5540	172.6	956204
39	10.28	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, including fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).	Kg	2508	772.4	1937179.2
40	10.31	Providing and fixing angle iron frames for doors, windows and ventilators of mild steel Angle sections of size 35x35x5 mm, joints mitred and welded by angle iron 35x35x5 mm or 35x 5 mm flat pieces to the existing T-iron frame or to the wall with dash fastener, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer, all complete as per the direction of Engineer-In-charge.	Kg	2360	130.5	307980
	11.0	FLOORING				
	11.1S	General				
	11.3	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete.				
41	11.3.1	40 mm thick with 20 mm nominal size stone aggregate	Sqm	204	614.2	125296.8
	11.37S	CERAMIC GLAZED TILES				
42	11.37	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), Jointing with grey cement slurry @ 3.3 kg/sqm including pointing the joints with white cement and matching pigment etc., complete.	Sqm	850	1096.55	932067.5
	11.41S	VITRIFIED FLOOR TILES				

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	11.41A	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.				
	11.41A.1	Double charge vitrified tile polished finish of size				
43	11.41A.1.1	Size of Tile 600 x 600 mm	Sqm	150	1453.65	218047.5
	11.41A.3	Glazed Vitrified tiles Matt/Antiskid finish of size				
44	11.41A.3.1	Size of Tile 600 x 600 mm	Sqm	1730	1464.85	2534190.5
	11.46	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete.				
45	11.46.1	Size of Tile 500x500 mm	Sqm	82.8	1593.9	131974.92
	12.0	ROOFING				
	12.37S	RAIN WATER SPOUT AND PIPE				
	12.41	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.				
46	12.41.2	110 mm diameter	Metre	857	377.4	323431.8
47	12.50	Providing and fixing pre-coated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) of total coated thickness 0.50 mm (base metal of minimum 0.45 mm thickness with total coating thickness of 0.05 mm) 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.	Sqm	256	738.65	189094.4

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	12.51	Providing and fixing precoated galvanised steel sheet roofing accessories of total coated thickness 0.50 mm (base metal of minimum 0.45 mm thickness with total coating thickness of 0.05 mm) with Zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/ self tapping screws complete :				
48	12.51.1	Ridges plain (500 - 600mm)	Metre	20.5	532.35	10913.18
	13.0	FINISHING				
	13.1S	CEMENT PLASTER (IN FINE SAND)				
	13.1	12 mm cement plaster of mix :				
49	13.1.2	1:6 (1 cement: 6 fine sand)	Sqm	9830	333.35	3276830.5
	13.2	15 mm cement plaster on the rough side of single or half brick wall of mix :				
50	13.2.2	1:6 (1 cement: 6 fine sand)	Sqm	1010	383	386830
	13.4S	CEMENT PLASTER (IN COARSE SAND)				
	13.5	15 mm cement plaster on rough side of single or half brick wall of mix:				
51	13.5.2	1:6 (1 cement: 6 coarse sand)	Sqm	4815	395.35	1903610.25
	13.16S	6 mm CEMENT PLASTER				
	13.16	6 mm cement plaster of mix :				
52	13.16.1	1:3 (1 cement : 3 fine sand)	Sqm	484	300.45	145417.8
53	13.18	Neat cement punning.	Sqm	20	79.95	1599
	13.20S	PEBBLE DASH PLASTER				
54	13.26	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	Sqm	14790	262.7	3885333
	13.44S	EXTERIOR FINISHING				
	13.44	Finishing walls with water proofing cement paint of required shade :				
55	13.44.1	New work (Two or more coats applied @ 3.84 kg/10 sqm)	Sqm	4795	116.9	560535.5
	13.48	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :				
56	13.48.2	Painting wood work with Deluxe Multi Surface Paint of required shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @0.75 ltr/10 sqm of approved brand and manufacture	Sqm	72	176.25	12690
57	13.48.3	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @ 0.80 ltr/10 sqm of approved brand and manufacture	Sqm	13664	170.7	2332444.8
	13.48A	Finishing walls with 100% Premium acrylic emulsion paint (Company Depot Tinted) having VOC less than 50 gm/litre and UV resistance as per IS 15489:2004, Alkali & fungal resistance, dirt resistance exterior paint of required shade with silicon additives.				
58	13.48A.1	New work (Two or more coats applied @ 1.43 litre/ 10 sqm. Over and including priming coat of exterior primer applied @ 0.90 litre/10 sqm.	Sqm	1500	181.25	271875

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	13.61	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
59	13.61.1	Two or more coats on new work	Sqm	455	155.9	70934.5
	13.63	Painting with aluminium paint of approved brand and manufacture to give an even shade .				
60	13.63.1	Two or more coats on new work	Sqm	608	146.8	89254.4
	15.0	DISMANTLING AND DEMOLISHING				
	15.15	General				
61	15.24	Demolishing dry brick pitching in floors, drains etc. including stacking of serviceable material and disposal of unserviceable material within 50 metres lead :	cum	15	1317.65	19764.75
	17.0	SANITARY INSTALLATIONS				
	17.1S	General				
	17.1	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231,with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:				
62	17.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	Each	30	6767.4	203022
	17.2	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required :				
63	17.2.1	W.C. pan with ISI marked white solid plastic seat and lid	Each	31	6515.55	201982.05
	17.7	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:				
64	17.7.1	White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps	Each	54	2648.85	143037.9
	17.10	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS:13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required :				
	17.10.2	Kitchen sink without drain board				
65	17.10.2.1	610x510 mm bowl depth 200 mm	Each	7	4940.8	34585.6
	17.32	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing :				
66	17.32.3	Oval shape 450x350 mm (outer dimensions)	Each	50	1377.1	68855
	17.35	Providing and fixing soil, waste and vent pipes :				

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	17.35.2	75 mm diameter :				
67	17.35.2.1	Sand cast iron S&S pipe as per IS: 1729	Metre	770	1044.75	804457.5
	17.36	Providing and filling the joints with spun yarn, cement slurry and cement mortar 1:2 (1 cement : 2 fine sand) in S.C.I./ C.I. Pipes :				
68	17.36.1	75 mm dia pipe	Each	233	168.2	39190.6
69	17.71	Providing and fixing PTMT liquid soap container 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour, weighing not less than 105 gms.	Each	79	168.35	13299.65
	17.73	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour.				
70	17.73.1	450 mm long towel rail with total length of 495 mm, 78 mm wide and effective height of 88 mm, weighing not less than 170 gms	Each	79	673.4	53198.6
	18.0	WATER SUPPLY				
	18.4S	PP-R PIPES				
	18.4	Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes confirming to IS 15801, UV stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings and fixing the pipe with clamps at 1.00 m spacing. This includes testing of joints complete as per direction of Engineer-in-Charge. (Internal Exposed on walls)				
71	18.4.4	PN - 16 Pipe, 40mm OD (SDR-7.4)	Metre	1500	545.75	818625
	18.7S	C.P.V.C. PIPES				
	18.8	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings and fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc.				
72	18.8.1	15 mm nominal dia Pipes	Metre	1150	497.8	572470
73	18.8.2	20 mm nominal dia Pipes	Metre	220	537.6	118272
74	18.8.3	25 mm nominal dia Pipes	Metre	200	627.25	125450
	18.9	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. External work				
75	18.9.2	20 mm nominal dia Pipes	Metre	180	274.3	49374
76	18.9.3	25 mm nominal dia Pipes	Metre	230	355.4	81742
	18.15S	BRASS FITTINGS				

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	18.16	Providing and fixing brass stop cock of approved quality :				
77	18.16.2	20 mm nominal bore	Each	50	379.2	18960
	18.31S	C.I. SLUICE VALVES/ FIRE HYDRANTS & FIXTURES				
78	18.48	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	Per Litre	50000	11	550000
	18.54S	PTMT FITTINGS				
	18.54	Providing and fixing PTMT bib cock of approved quality and colour.				
79	18.54.1	15 mm nominal bore, 86 mm long, weighing not less than 88 gms	Each	117	125.6	14695.2
	21.0	ALUMINIUM WORK				
	21.1S	General				
	21.1	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, panelling and dash fasteners to be paid for separately) :				
	21.1.1	For fixed portion				
80	21.1.1.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	Kg	1932	495.05	956436.6
	21.1.2	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately)				
81	21.1.2.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	Kg	2273	598.6	1360617.8
	21.3	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item):				
82	21.3.1	With float glass panes of 4.0 mm thickness (weight not less than 10kg/sqm)	Sqm	658	1176.8	774334.4
					Total	105555261.98
Item- 18	(Renovation of old station heritage building)					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

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	2.0	EARTH WORK				
	2.1S	General				
	2.6	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and for all lift, as directed by Engineer-in-charge.				
1	2.6.1	All kinds of soil	cum	45	177.5	7987.5
2	2.25A	Excavating, supplying and filling of local earth (including royalty) by mechanical transport upto a lead of 5km also including ramming and watering of the earth in layers not exceeding 20 cm in trenches, plinth, sides of foundation etc. complete.	cum	150	700.5	105075
3	2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	cum	24	2123.75	50970
	4.0	CONCRETE WORK				
	4.1S	CEMENT CONCRETE (CAST IN SITU)				
	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
4	4.1.3	1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	51	7878.5	401803.5
5	4.1.5	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)	cum	12	7294.7	87536.4
	4.3	Centering and shuttering including strutting, propping etc. and removal of form work for :				
6	4.3.1	Foundations, footings, bases for columns	Sqm	75	392.15	29411.25
	5.0	REINFORCEMENT CEMENT CONCRETE				
	5.1S	CAST IN SITU				
	5.1	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :				
7	5.1.2	1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	45	9045.75	407058.75
	5.2	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement :				
8	5.2.2	1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	18	10852.95	195353.1

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9	5.3	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15 degree landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	cum	30	11505.5	345165
	5.9S	FORM WORK				
	5.9	Centering and shuttering including strutting, propping etc. and removal of form for				
10	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete	Sqm	105	392.15	41175.75
11	5.9.3	Suspended floors, roofs, landings, balconies and access platform	Sqm	150	927.25	139087.5
12	5.9.5	Lintels, beams, plinth beams, girders, bressummers and cantilevers	Sqm	210	736.4	154644
13	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts	Sqm	135	961.3	129775.5
	5.12S	PRE-CAST RCC				
14	5.12	Providing, hoisting and fixing above plinth level up to floor five level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like, including the cost of required centering, shuttering but , excluding cost of reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	cum	45	10585.9	476365.5
	5.22S	STEEL REINFORCEMENT				
	5.22	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.				
15	5.22.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	3000	107.85	323550
	5.22A	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.				
16	5.22A.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	6600	107.85	711810
	6.0	MASONRY WORK				
	6.1S	General				
	6.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				
17	6.1.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	30	7132.25	213967.5
	6.4	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 :				
18	6.4.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	50	9105.95	455297.5
	6.12S	HALF BRICK MASONRY				

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	6.13	Half brick masonry 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.				
19	6.13.2	Cement mortar 1:4 (1 cement :4 coarse sand)	Sqm	30	1123.8	33714
	8.0	CLADDING WORK				
	8.1S	General				
	8.2	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 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				
	8.2.2	Granite stone slab colour black, Cherry/Ruby red				
20	8.2.2.2	Area of slab over 0.50 sqm	Sqm	30	5136.3	154089
	9.0	WOOD AND P.V.C. WORK				
	9.1S	FRAMES AND TRUSSES				
	9.20	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.				
21	9.20.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	Sqm	60	3473.85	208431
	9.40S	MISCELLANEOUS-WOOD WORK				
	9.48	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.				
22	9.48.1	Fixed to steel windows by welding	Kg	675	219.1	147892.5
	9.95S	ANODISED ALUMINIUM FITTINGS (ALL FITTINGS SHALL BE ISI MARKED)				
	9.97	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :				
23	9.97.2	250x10 mm	Each	60	115.15	6909
24	9.97.4	150x10 mm	Each	120	82.55	9906
	9.105S	GYPSUM BOARD PARTITIONS				

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25	9.119	Providing and fixing factory made P.V.C. door frame of size 50x47 mm with a wall thickness of 5 mm, made out of extruded 5 mm rigid PVC foam sheet, mitred at corners and joined with 2 Nos of 150 mm long brackets of 15x15 mm M.S. square tube, the vertical door frame profiles to be reinforced with 19x19 mm M.S. square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame. The door frame to be fixed to the wall using M.S. screws of 65/100 mm size, complete as per manufacturer's specification and direction of Engineer- in-Charge.	Metre	120	492.7	59124
	9.120	Providing and fixing factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19 mm x 19 mm for styles and 15x15 mm for top & bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture. M.S. frame covered with 5 mm thick heat moulded PVC 'C' channel of size 30 mm thickness, 70 mm width out of which 50 mm shall be flat and 20 mm shall be tapered in 45 degree angle on both side forming styles and 5 mm thick, 95 mm wide PVC sheet out of which 75mm shall be flat and 20 mm shall be tapered in 45 degree on the inner side to form top and bottom rail and 115 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered on both sides to form lock rail. Top, bottom and lock rails shall be provided both side of the panel. 10 mm (5 mm x 2) thick, 20 mm wide cross PVC sheet be provided as gap insert for top rail & bottom rail, panelling of 5 mm thick both side PVC sheet to be fitted in the M.S. frame welded/ sealed to the styles & rails with 7 mm (5 mm+2 mm) thick x 15 mm wide PVC sheet beading on inner side, and joined together with solvent cement adhesive. An additional 5 mm thick PVC strip of 20 mm width is to be stuck on the interior side of the 'C' Channel using PVC solvent adhesive etc. complete as per direction of Engineer-in-charge, manufacturer's specification & drawing.				
26	9.120.1	30 mm thick plain PVC door shutters	Sqm	60	3182.95	190977
	9.165	Providing and fixing bright /matt finished Stainless Steel handles of approved quality & make with necessary screws etc all complete.				
27	9.165.1	125 mm	Each	60	119.2	7152
	10.0	STEEL WORK				
	10.15	General				
28	10.1	Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	Kg	300	117.35	35205
29	10.2	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	Kg	24600	133.7	3289020

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	10.25	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.				
30	10.25.2	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	Kg	300	172.6	51780
31	10.28	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, including fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).	Kg	210	772.4	162204
	11.0	FLOORING				
	11.26S	KOTA STONE FLOORING				
	11.26	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) :				
32	11.26.1	25 mm thick	Sqm	150	1948.25	292237.5
33	11.27	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.	Sqm	150	2354.7	353205
	11.37S	CERAMIC GLAZED TILES				
34	11.37A	Providing and fixing 1st quality ceramic glazed floor tiles conforming to IS : 15622 (thickness to be specified by the manufacturer) of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge in skirting, risers of steps and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement: 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete.	Sqm	600	1112.7	667620
	11.41S	VITRIFIED FLOOR TILES				

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	11.41A	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.				
	11.41A.1	Double charge vitrified tile polished finish of size				
35	11.41A.1.1	Size of Tile 600 x 600 mm	Sqm	300	1453.65	436095
	11.41A.3	Glazed Vitrified tiles Matt/Antiskid finish of size				
36	11.41A.3.1	Size of Tile 600 x 600 mm	Sqm	400	1464.85	585940
	11.46	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete.				
37	11.46.1	Size of Tile 500x500 mm	Sqm	180	1593.9	286902
	12.0	ROOFING				
	12.37S	RAIN WATER SPOUT AND PIPE				
	12.41	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.				
38	12.41.2	110 mm diameter	Metre	300	377.4	113220
39	12.50	Providing and fixing pre-coated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) of total coated thickness 0.50 mm (base metal of minimum 0.45 mm thickness with total coating thickness of 0.05 mm) 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.	Sqm	2400	738.65	1772760

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	12.51	Providing and fixing precoated galvanised steel sheet roofing accessories of total coated thickness 0.50 mm (base metal of minimum 0.45 mm thickness with total coating thickness of 0.05 mm) with Zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/ self tapping screws complete :				
40	12.51.1	Ridges plain (500 - 600mm)	Metre	395	532.35	210278.25
	13.0	FINISHING				
	13.1S	CEMENT PLASTER (IN FINE SAND)				
	13.1	12 mm cement plaster of mix :				
41	13.1.2	1:6 (1 cement: 6 fine sand)	Sqm	900	333.35	300015
	13.4S	CEMENT PLASTER (IN COARSE SAND)				
	13.5	15 mm cement plaster on rough side of single or half brick wall of mix:				
42	13.5.2	1:6 (1 cement: 6 coarse sand)	Sqm	1200	395.35	474420
	13.20S	PEBBLE DASH PLASTER				
43	13.26	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	Sqm	600	262.7	157620
	13.37S	INTERIOR FINISHING				
	13.41	Distempering with 1st quality acrylic distemper (ready mixed) having VOC content less than 50 gram/litre, of approved manufacturer and of required shade and colour all complete to achieve even shade and colour :				
44	13.41.1	New work (two or more coats) over and including water thinnable priming coat with cement primer having VOC content less than 50 gram/litre	Sqm	1999.67	185.65	371238.74
	13.44S	EXTERIOR FINISHING				
	13.44	Finishing walls with water proofing cement paint of required shade :				
45	13.44.1	New work (Two or more coats applied @ 3.84 kg/10 sqm)	Sqm	1500	116.9	175350
	13.48	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :				
46	13.48.3	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @ 0.80 ltr/10 sqm of approved brand and manufacture	Sqm	300	170.7	51210
	13.63	Painting with aluminium paint of approved brand and manufacture to give an even shade .				
47	13.63.1	Two or more coats on new work	Sqm	950	146.8	139460
	15.0	DISMANTLING AND DEMOLISHING				
	15.1S	General				
	15.2	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.				
48	15.2.1	Nominal concrete 1:3:6 or richer mix (including equivalent design mix)	cum	5	2434.25	12171.25

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	15.7	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.				
49	15.7.4	In cement mortar	cum	5	2060.2	10301
	17.0	SANITARY INSTALLATIONS				
	17.1S	General				
	17.1	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231,with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:				
50	17.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	Each	30	6767.4	203022
	17.2	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required :				
51	17.2.1	W.C. pan with ISI marked white solid plastic seat and lid	Each	15	6515.55	97733.25
	17.7	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:				
52	17.7.1	White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps	Each	15	2648.85	39732.75
	17.32	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing :				
53	17.32.3	Oval shape 450x350 mm (outer dimensions)	Each	15	1377.1	20656.5
	17.35	Providing and fixing soil, waste and vent pipes :				
	17.35.2	75 mm diameter :				
54	17.35.2.1	Sand cast iron S&S pipe as per IS: 1729	Metre	60	1044.75	62685
55	17.71	Providing and fixing PTMT liquid soap container 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour, weighing not less than 105 gms.	Each	30	168.35	5050.5
	17.73	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour.				
56	17.73.1	450 mm long towel rail with total length of 495 mm, 78 mm wide and effective height of 88 mm, weighing not less than 170 gms	Each	30	673.4	20202

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	18.0	WATER SUPPLY				
	18.4S	PP-R PIPES				
	18.4	Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes confirming to IS 15801, UV stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings and fixing the pipe with clamps at 1.00 m spacing. This includes testing of joints complete as per direction of Engineer-in-Charge. (Internal Exposed on walls)				
57	18.4.4	PN - 16 Pipe, 40mm OD (SDR-7.4)	Metre	360	545.75	196470
	18.7S	C.P.V.C. PIPES				
	18.8	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings and fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc.				
58	18.8.1	15 mm nominal dia Pipes	Metre	300	497.8	149340
	18.31S	C.I. SLUICE VALVES/ FIRE HYDRANTS & FIXTURES				
59	18.48	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	Per Litre	15000	11	165000
	18.54S	PTMT FITTINGS				
	18.54	Providing and fixing PTMT bib cock of approved quality and colour.				
60	18.54.1	15 mm nominal bore, 86 mm long, weighing not less than 88 gms	Each	180	125.6	22608
	21.0	ALUMINIUM WORK				
	21.1S	General				
	21.1	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, panelling and dash fasteners to be paid for separately) :				
	21.1.1	For fixed portion				

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61	21.1.1.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	Kg	150	495.05	74257.5
	21.1.2	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately)				
62	21.1.2.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	Kg	210	598.6	125706
	21.3	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item):				
63	21.3.1	With float glass panes of 4.0 mm thickness (weight not less than 10kg/sqm)	Sqm	90	1176.8	105912
	26.0	NEW TECHNOLOGIES AND MATERIALS				
	26.41S	NEW TECHNOLOGY ITEMS				
64	26.72	Providing and laying 60mm thick factory made cement concrete paver block of approved shape and colour of M -30 grade made of C&D waste by block making machine with vibratory compaction laid in required pattern and including over 50mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge.	Sqm	300	829.75	248925
					Total	16579781.49
Item- 19 (construction of RCC tank 1,00,000 Litre capacity)						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
	2.0	EARTH WORK				
	2.1S	General				
	2.6	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and for all lift, as directed by Engineer-in-charge.				
1	2.6.1	All kinds of soil	cum	835.63	177.5	148324.33
2	2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	cum	20.14	2123.75	42772.33
	4.0	CONCRETE WORK				
	4.1S	CEMENT CONCRETE (CAST IN SITU)				
	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
3	4.1.5	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)	cum	65.56	7294.7	478240.53

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	4.2	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor etc., up to floor five level, excluding the cost of centering, shuttering and finishing:				
4	4.2.2	1:1 1/2:3 (1 cement : 1 1/2 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	cum	20.14	10357.55	208601.06
	5.0	REINFORCEMENT CEMENT CONCRETE				
	5.1S	CAST IN SITU				
	5.1	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :				
5	5.1.2	1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	40.28	9045.75	364362.81
6	5.5	Reinforced cement concrete work in arches, arch ribs, domes, vaults, shells, folded plate and roofs having slope more than 15 degree up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	cum	110	12205.85	1342643.5
	5.9S	FORM WORK				
	5.9	Centering and shuttering including strutting, propping etc. and removal of form for				
7	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete	Sqm	924.13	392.15	362397.58
8	5.9.5	Lintels, beams, plinth beams, girders, bressummers and cantilevers	Sqm	847	736.4	623730.8
9	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts	Sqm	847	961.3	814221.1
10	5.9.9	Arches, domes, vaults up to 6 m span	Sqm	200	2154.35	430870
	5.12S	PRE-CAST RCC				
11	5.12	Providing, hoisting and fixing above plinth level up to floor five level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like, including the cost of required centering, shuttering but , excluding cost of reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	cum	58.85	10585.9	622980.22
	5.22S	STEEL REINFORCEMENT				
	5.22	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.				
12	5.22.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	12685	107.85	1368077.25

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	5.22A	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.				
13	5.22A.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	28500	107.85	3073725
	5.33S	DESIGN MIX CONCRETE				
	5.33	Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced 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, finishing and reinforcement as per direction of the engineer-in-charge, for the following grades of concrete.:				
	5.33.2	All works above plinth level upto floor V level				
14	5.33.2.3	Concrete of M35 grade with minimum cement content of 370 kg /cum	cum	100	10162.35	1016235
15	5.38	Extra for R.C.C./ B.M.C/ R.M.C. work above floor V level for each four floors or part thereof.	cum	100	355.65	35565
	6.0	MASONRY WORK				
	6.1S	General				
	6.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				
16	6.1.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	26.85	7132.25	191500.91
	6.4	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 :				
17	6.4.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	20.14	9105.95	183393.83
	6.12S	HALF BRICK MASONRY				
	6.12	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in :				
18	6.12.2	cement mortar 1:4 (1 cement : 4 coarse sand)	Sqm	13.43	905.05	12154.82
	8.0	CLADDING WORK				
	8.20S	STONE WORK DRY CLADDING				
19	8.31	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	Sqm	268.5	1267.95	340444.58
	10.0	STEEL WORK				

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	10.1S	General				
20	10.1	Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	Kg	1611	117.35	189050.85
21	10.2	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	Kg	5000	133.7	668500
	11.0	FLOORING				
	11.1S	General				
	11.3	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete.				
22	11.3.1	40 mm thick with 20 mm nominal size stone aggregate	Sqm	434.25	614.2	266716.35
	11.41S	VITRIFIED FLOOR TILES				
	11.41A	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.				
	11.41A.2	Glazed vitrified floor tiles polished finish of size				
23	11.41A.2.1	Size of Tile 600 x 600 mm	Sqm	161.1	1502.75	242093.03
	12.0	ROOFING				
	12.37S	RAIN WATER SPOUT AND PIPE				
	12.65	Providing & fixing at all heights, levels and locations colour finish Aluminium alloy roofing sheets of alloy IS designation 31500, temper Hx8 conforming to IS 737 and dimensions as per IS code 2676 with characteristics of good formability and corrosion resistance. The profile sheets shall be fixed to truss members in slope or required pitch or curvature with Hex cap headed self drilling/tapping Stainless steel screws M6, 50 mm long with 3 mm EPDM seal washer etc. all inclusive of labour, scaffolding, T&P and sundries etc. complete as per directions of the Engineer-In-Charge. (Cost of truss/frame work shall be paid separately).				
24	12.65.1	0.56 mm, Aluminium Color coated troughed profile with center to center pitch of 200 mm, depth of 32 mm, overall profile width1092 mm, cover width 1000 mm.	Sqm	107.4	1176.7	126377.58
	13.0	FINISHING				
	13.1S	CEMENT PLASTER (IN FINE SAND)				

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	13.1	12 mm cement plaster of mix :				
25	13.1.2	1:6 (1 cement: 6 fine sand)	Sqm	268.5	333.35	89504.48
	13.2	15 mm cement plaster on the rough side of single or half brick wall of mix :				
26	13.2.2	1:6 (1 cement: 6 fine sand)	Sqm	1500	383	574500
	13.16S	6 mm CEMENT PLASTER				
27	13.18	Neat cement punning.	Sqm	268.5	79.95	21466.58
	13.20S	PEBBLE DASH PLASTER				
28	13.26	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	Sqm	805.5	262.7	211604.85
	13.37S	INTERIOR FINISHING				
	13.39	Colour washing such as green, blue or buff to give an even shade :				
29	13.39.1	New work (two or more coats) with a base coat of white washing with lime	Sqm	1208.42	53.3	64408.79
	13.44S	EXTERIOR FINISHING				
	13.48	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :				
30	13.48.3	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @ 0.80 ltr/10 sqm of approved brand and manufacture	Sqm	750	170.7	128025
	13.109	Finishing walls with water proofing cement paint of required shade :				
31	13.109.2	Old work (one or more coats @ 2.20 kg/10 sqm) complete.	Sqm	671.25	75.8	50880.75
	17.0	SANITARY INSTALLATIONS				
	17.1S	General				
	17.1	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231,with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:				
32	17.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	Each	8.06	6767.4	54545.24
	17.5	Providing and fixing white vitreous china flat back half stall urinal of size 580x380x350 mm with white PVC automatic flushing cistern, with fittings, standard size C.P. brass flush pipe, spreaders with unions and clamps (all in C.P. brass) with waste fitting as per IS : 2556, C.I. trap with outlet grating and other couplings in C.P. brass, including painting of fittings and cutting and making good the walls and floors wherever required :				
33	17.5.1	Single half stall urinal with 5 litre P.V.C. automatic flushing cistern	Each	8.06	12071.75	97298.31
	17.7	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:				

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34	17.7.1	White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps	Each	8.06	2648.85	21349.73
	17.25	Providing and fixing white vitreous china wash basin including making all connections but excluding the cost of fittings :				
35	17.25.1	Flat back wash basin of size 630x450 mm	Each	8.06	1339.7	10797.98
	17.28	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.				
	17.28.2	Flexible pipe				
36	17.28.2.1	32 mm dia	Each	53.7	119.55	6419.84
	18.0	WATER SUPPLY				
	18.4S	PP-R PIPES				
	18.4	Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes confirming to IS 15801, UV stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings and fixing the pipe with clamps at 1.00 m spacing. This includes testing of joints complete as per direction of Engineer-in-Charge. (Internal Exposed on walls)				
37	18.4.2	PN - 16 Pipe, 25mm OD (SDR-7.4)	Metre	335.63	318.35	106847.81
	18.6A	Providing and fixing PPR Unions				
38	18.6A.2	PPR Union 25mm	Each	48.33	334	16142.22
	18.15S	BRASS FITTINGS				
	18.16	Providing and fixing brass stop cock of approved quality :				
39	18.16.1	15 mm nominal bore	Each	24.17	353.25	8538.05
	18.31S	C.I. SLUICE VALVES/ FIRE HYDRANTS & FIXTURES				
	18.31	Providing and fixing C.I. sluice valves (with cap) complete with bolts, nuts, rubber insertions etc. (the tail pieces if required will be paid separately) :				
	18.31.1	100 mm diameter				
40	18.31.1.1	Class I	Each	10	4791.2	47912
	18.31.3	150 mm diameter				
41	18.31.3.1	Class I	Each	32	6966.55	222929.6
	18.31.4	200 mm diameter				
42	18.31.4.1	Class I	Each	16	13554.7	216875.2
	18.49S	C.P. BRASS FITTINGS				
	18.49	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :				
43	18.49.1	15 mm nominal bore	Each	24.17	506.8	12249.36
	18.59S	AIR VALVE & WATER METER (BULK TYPE)				
	18.62	Providing and fixing PTMT Ball cock of approved quality, colour and make complete with Epoxy coated aluminium rod with L.P./ H.P.H.D. plastic ball.				
44	18.62.4	40 mm nominal bore, 206mm long, weighing not less than 690 gms	Each	24.17	737.2	17818.12
	18.72	Providing and laying S&S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS : 8329 :				
45	18.72.1	100 mm dia Ductile Iron Class K-7 pipes	Metre	110	1257.8	138358
46	18.72.2	150 mm dia Ductile Iron Class K-7 pipes	Metre	110	1789.6	196856
47	18.72.3	200 mm dia Ductile Iron Class K-7 pipes	Metre	100	2328.15	232815
	20.0	PILE WORK				

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	20.1S	General				
	20.5	Providing, driving (with vibrating pile driving hammer complete with power units & accessories) and installing driven Pre-cast reinforced cement concrete piles of specified diameter and length below the pile cap in M-25 cement concrete to carry safe working load not less than specified with a central through preformed hole with M.S. black pipe of dia, 40 mm for grouting with cement sand grouting of mix 1:2 (1cement : 2 coarse sand) under sufficient positive pressure to ensure complete filling including centring, shuttering, driving and removing the steel casing pipe and lifting casing etc. complete but excluding the cost of steel reinforcement. (Length of pile for payment shall be measured from top of the shoe to the bottom of pile cap).				
48	20.5.6	1000 mm dia piles	Metre	120	14946.4	1793568
					Total	17494689.37
Item- 20	(CST Plant)					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
	2.0	EARTH WORK				
	2.1S	General				
	2.6	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and for all lift, as directed by Engineer-in-charge.				
1	2.6.1	All kinds of soil	cum	300	177.5	53250
2	2.25A	Excavating, supplying and filling of local earth (including royalty) by mechanical transport upto a lead of 5km also including ramming and watering of the earth in layers not exceeding 20 cm in trenches, plinth, sides of foundation etc. complete.	cum	300	700.5	210150
3	2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	cum	140	2123.75	297325
	4.0	CONCRETE WORK				
	4.1S	CEMENT CONCRETE (CAST IN SITU)				
	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
4	4.1.3	1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	280	7878.5	2205980
	5.0	REINFORCEMENT CEMENT CONCRETE				
	5.9S	FORM WORK				
	5.9	Centering and shuttering including strutting, propping etc. and removal of form for				
5	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete	Sqm	2000	392.15	784300
6	5.9.2	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	Sqm	500	842.5	421250
	5.22S	STEEL REINFORCEMENT				

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	5.22A	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.				
7	5.22A.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	12000	107.85	1294200
	5.33S	DESIGN MIX CONCRETE				
	5.33	Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced 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, finishing and reinforcement as per direction of the engineer-in-charge, for the following grades of concrete.:				
	5.33.1	All works upto plinth level				
8	5.33.1.1	Concrete of M25 grade with minimum cement content of 330 kg /cum	cum	150	9504.75	1425712.5
	6.0	MASONRY WORK				
	6.1S	General				
	6.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				
9	6.1.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	25	7132.25	178306.25
	6.4	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 :				
10	6.4.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	20	9105.95	182119
	6.26S	EXPOSED BRICK WALL				
	6.32	Brick work with clay flyash F.P.S. (non modular) brick of class designation 7.5 in superstructure above plinth level up to floor five level in :				
11	6.32.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	40	9333.45	373338
	9.0	WOOD AND P.V.C. WORK				
	9.40S	MISCELLANEOUS-WOOD WORK				
	9.48	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.				
12	9.48.1	Fixed to steel windows by welding	Kg	400	219.1	87640
13	9.48.2	Fixed to openings /wooden frames with rawl plugs screws etc.	Kg	200	238.35	47670
	10.0	STEEL WORK				
	10.1S	General				
14	10.2	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	Kg	4800	133.7	641760
	11.0	FLOORING				

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	11.1S	General				
	11.3	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete.				
15	11.3.1	40 mm thick with 20 mm nominal size stone aggregate	Sqm	100	614.2	61420
	11.37S	CERAMIC GLAZED TILES				
16	11.37	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), Jointing with grey cement slurry @ 3.3 kg/sqm including pointing the joints with white cement and matching pigment etc., complete.	Sqm	80	1096.55	87724
	13.0	FINISHING				
	13.1S	CEMENT PLASTER (IN FINE SAND)				
	13.1	12 mm cement plaster of mix :				
17	13.1.2	1:6 (1 cement: 6 fine sand)	Sqm	100	333.35	33335
	13.2	15 mm cement plaster on the rough side of single or half brick wall of mix :				
18	13.2.1	1:4 (1 cement: 4 fine sand)	Sqm	100	399.45	39945
	13.11S	CEMENT PLASTER IN TWO COATS				
19	13.14	15 mm cement plaster 1:2 (1 cement : 2 stone dust) on the rough side of single or half brick wall.	Sqm	100	437.2	43720
	13.16S	6 mm CEMENT PLASTER				
20	13.18	Neat cement punning.	Sqm	100	79.95	7995
	13.37S	INTERIOR FINISHING				
	13.41	Distempering with 1st quality acrylic distemper (ready mixed) having VOC content less than 50 gram/litre, of approved manufacturer and of required shade and colour all complete to achieve even shade and colour :				
21	13.41.1	New work (two or more coats) over and including water thinnable priming coat with cement primer having VOC content less than 50 gram/litre	Sqm	100	185.65	18565
	17.0	SANITARY INSTALLATIONS				
	17.1S	General				
	17.35	Providing and fixing soil, waste and vent pipes :				
	17.35.1	100 mm dia				
22	17.35.1.2	Centrifugally cast (spun) iron socket & spigot (S&S) pipe as per IS: 3989	Metre	200	1180.75	236150
	18.0	WATER SUPPLY				
	18.15S	BRASS FITTINGS				
	18.19	Providing and fixing gun metal non- return valve of approved quality (screwed end) :				
	18.19.1	25 mm nominal bore				
23	18.19.1.2	Vertical	Each	50	624.1	31205
	18.31S	C.I. SLUICE VALVES/ FIRE HYDRANTS & FIXTURES				
	18.31	Providing and fixing C.I. sluice valves (with cap) complete with bolts, nuts, rubber insertions etc. (the tail pieces if required will be paid separately) :				

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	18.31.1	100 mm diameter				
24	18.31.1.2	Class II	Each	50	4985.85	249292.5
25	18.48	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	Per Litre	1000	11	11000
	18.59S	AIR VALVE & WATER METER (BULK TYPE)				
	18.72	Providing and laying S&S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS : 8329 :				
26	18.72.4	250 mm dia Ductile Iron Class K-7 pipes	Metre	150	2880.7	432105
	21.0	ALUMINIUM WORK				
	21.1S	General				
	21.2	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminium doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge.				
27	21.2.1	Pre-laminated particle board with decorative lamination on one side and balancing lamination on other side	Sqm	50	1139.3	56965
					Total	9512422.25
Item- 21	Construction of New GRP office cum barrack against dismantling under ABSS					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
	1.0	CARRIAGE OF MATERIALS				
	1.1	By Mechanical Transport including loading, unloading and stacking				
	1.1.1	Lime, moorum, building rubbish				
1	1.1.1.2	2km	cum	9	196.66	1769.94
	2.0	EARTH WORK				
	2.1S	General				
	2.1	Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including getting out and disposal of excavated earth upto 50 m and lift upto 1.5 m, as directed by Engineer-in- Charge:				
2	2.1.1	All kinds of soil	Sqm	108	129.85	14023.8
	2.6	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and for all lift, as directed by Engineer-in-charge.				
3	2.6.1	All kinds of soil	cum	1020	177.5	181050
4	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 and for all lift.	cum	333	196	65268
5	2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	cum	114.5	2123.75	243169.38
	4.0	CONCRETE WORK				
	4.1S	CEMENT CONCRETE (CAST IN SITU)				

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	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
6	4.1.2	1:1 1/2:3 (1 Cement: 1 1/2 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	18	8340.85	150135.3
7	4.1.5	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)	cum	5	7294.7	36473.5
	4.2	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor etc., up to floor five level, excluding the cost of centering, shuttering and finishing:				
8	4.2.3	1:2:4 (1 Cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	32.5	9895.2	321594
	4.3	Centering and shuttering including strutting, propping etc. and removal of form work for :				
9	4.3.1	Foundations, footings, bases for columns	Sqm	30	392.15	11764.5
	5.0	REINFORCEMENT CEMENT CONCRETE				
	5.1S	CAST IN SITU				
	5.1	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :				
10	5.1.2	1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	62	9045.75	560836.5
11	5.3	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15 degree landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	cum	40.5	11505.5	465972.75
	5.9S	FORM WORK				
	5.9	Centering and shuttering including strutting, propping etc. and removal of form for				
12	5.9.3	Suspended floors, roofs, landings, balconies and access platform	Sqm	270	927.25	250357.5
13	5.9.5	Lintels, beams, plinth beams, girders, bressummers and cantilevers	Sqm	900	736.4	662760
14	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts	Sqm	225	961.3	216292.5
15	5.9.7	Stairs, (excluding landings) except spiral-staircases	Sqm	72	764.95	55076.4
	5.12S	PRE-CAST RCC				

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16	5.12	Providing, hoisting and fixing above plinth level up to floor five level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like, including the cost of required centering, shuttering but , excluding cost of reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	cum	10	10585.9	105859
	5.22S	STEEL REINFORCEMENT				
	5.22	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.				
17	5.22.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	22300	107.85	2405055
	6.0	MASONRY WORK				
	6.1S	General				
	6.2	Brick work with common burnt clay modular bricks of class designation 7.5 in foundation and plinth in:				
18	6.2.2	Cement Mortar 1:6 (1 cement : 6 coarse sand).	cum	45	6295.15	283281.75
	6.4	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 :				
19	6.4.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	45	9344.35	420495.75
20	6.4.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	81	9105.95	737581.95
	6.12S	HALF BRICK MASONRY				
	6.12	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in :				
21	6.12.2	cement mortar 1:4 (1 cement : 4 coarse sand)	Sqm	270	905.05	244363.5
	8.0	CLADDING WORK				
	8.1S	General				
	8.2	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 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				
	8.2.1	Raj Nagar Plain white marble/ Udaipur green marble/ Zebra black marble				
22	8.2.1.1	Area of slab upto 0.50 sqm	Sqm	9	3414.8	30733.2
23	8.2.1.2	Area of slab over 0.50 sqm	Sqm	9	3078.4	27705.6
	8.3	Providing edge moulding to 18 mm thick marble stone counters, Vanities etc., including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.				
24	8.3.2	Granite work	Metre	9	510.95	4598.55

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	9.0	WOOD AND P.V.C. WORK				
	9.1S	FRAMES AND TRUSSES				
	9.7	Providing and fixing panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled or panelled and glazed shutters 25 mm to 40 mm thick :				
25	9.7.8	Fly proof stainless steel grade 304 wire gauge with 0.5 mm dia. wire and 1.4 mm wide aperture with matching wood beading	Sqm	31.5	1800.45	56714.18
	9.20	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.				
26	9.20.2	30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	Sqm	9	3167.95	28511.55
	9.40S	MISCELLANEOUS-WOOD WORK				
	9.47	Providing and fixing nickel plated M.S. pipe curtain rods with nickel plated brackets :				
27	9.47.2	25 mm dia (heavy type)	Metre	13.5	186.4	2516.4
	9.48	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.				
28	9.48.1	Fixed to steel windows by welding	Kg	180	219.1	39438
	9.55S	BRIGHT FINISHED M.S. FITTINGS				
	9.55	Providing and fixing ISI marked IS:1341 M.S. pressed butt hinges bright finished with necessary screws etc. complete :				
29	9.55.1	125x65x2.12 mm	Each	27	53	1431
	9.88S	CHROMIUM PLATED BRASS FITTINGS				
	9.92	Providing and fixing chromium plated brass handles with necessary screws etc. complete:				
30	9.92.1	125 mm	Each	18	231.05	4158.9
	9.95S	ANODISED ALUMINIUM FITTINGS (ALL FITTINGS SHALL BE ISI MARKED)				
	9.96	Providing and fixing aluminium sliding door bolts, ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete :				
31	9.96.2	250x16 mm	Each	9	260.6	2345.4
	9.97	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :				
32	9.97.2	250x10 mm	Each	9	115.15	1036.35

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	9.101	Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete.				
33	9.101.1	Single rubber stopper	Each	9	39.6	356.4
	9.105S	GYP SUM BOARD PARTITIONS				
	9.118	Providing and fixing to existing door frames.				
34	9.118.1	24 mm thick factory made PVC door shutters made of styles and rails of a uPVC hollow section of size 59x24 mm and wall thickness 2 mm (+/- 0.2 mm) with inbuilt edging on both sides. The styles and rails mitred and joint at the corners by means of M.S. galvanised/ plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 20x20 mm and 1 mm (+/- 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x24 mm and 2 mm (+/- 0.2 mm) wall thickness, fixed to the shutter styles by means of plastic/galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm (+/- 0.1 mm) wall thickness. The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutter).	Sqm	13.5	2969.25	40084.88
35	9.121	Providing and fixing Fiber Glass Reinforced plastic (FRP) Door Frames of cross-section 90 mm x 45 mm having single rebate of 32mm x 15 mm to receive shutter of 30 mm thickness. The laminate shall be moulded with fire resistant grade unsaturated polyester resin and chopped mat. Door frame laminate shall be 2 mm thick and shall be filled with suitable wooden block in all the three legs. The frame shall be covered with fiber glass from all sides. M.S. stay shall be provided at the bottom to steady the frame.	Metre	45	570.95	25692.75

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	9.147	Providing and fixing factory made uPVC glazed/wire mesh windows/ doors comprising of lead free uPVC multi-chambered frame, sash and mullion/coupler (where ever required) extruded profiles having minimum wall thickness of 1.70 mm for Series R1 and R2 profiles and 2.10 mm for Series R3 and R4 profiles conforming to EN: 12608 in any shape, colour and design duly reinforced with galvanized mild steel section made of required shape & size as per CPWD Specification, uPVC extruded glazing beads, interlocks and Inline sash adaptor (where ever required) of appropriate dimension, EPDM gasket, hardware, SS 304 grade fasteners of minimum 8 mm dia with countersunk head, comprising of matching polyamide PA6 grade sleeve for fixing frame to finished wall as per IS 1367 : Part 1 to 14, plastic packers, plastic caps and necessary stainless steel screws etc. Profile of frame, sash & mullion (if required) shall be mitred cut and fusion welded/mechanically jointed duly sealed at all corners, including drilling of holes for fixing hardware and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of approved size and quality, all complete as per approved drawing conforming to CPWD specification & direction of Engineer-in-Charge. Section of steel reinforcement and cross sections of uPVC profiles to be as per design approved by Engineer-in-Charge. Wire mesh / Glazing of plain/ toughened/ laminated/ double glass unit with / without high performance coatings as per design requirements and conforming to IS: 3548 & IS: 16231 shall be paid separately.				
	9.147.A1	Two track two panels sliding window with Aluminium channel for roller track, wool pile, nylon rollers with SS 304 body.				
36	9.147.A1.1	Using R2 series with frame (40 mm & above) x (40 mm & above) & sash (25 mm & above) x (50 mm & above) with zinc alloy (zamak) powder coated touch locks with hook (Height upto 1.2 metre).	Sqm	45	8298.85	373448.25
	10.0	STEEL WORK				
	10.1S	General				
37	10.1	Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	Kg	135	117.35	15842.25
38	10.2	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	Kg	9980	133.7	1334326

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39	10.28	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, including fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).	Kg	180	772.4	139032
	11.0	FLOORING				
	11.1S	General				
40	11.7	Cement concrete pavement with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), including finishing complete.	cum	13.5	8595.15	116034.53
	11.37S	CERAMIC GLAZED TILES				
41	11.39	Providing and laying rectified Glazed Ceramic floor tiles of size 300x300 mm or more (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in colours 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 grouting the joints with white cement and matching pigments etc., complete.	Sqm	18	1330	23940
	11.41S	VITRIFIED FLOOR TILES				
	11.41	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete.				
42	11.41.2	Size of Tile 600x600 mm	Sqm	270	1553.45	419431.5
	11.55	Providing and laying flamed finish Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge :				
43	11.55.1	Flamed finish granite stone slab Jet Black, Cherry Red, Elite Brown, Cat Eye or equivalent.	Sqm	27	3186.7	86040.9
	12.0	ROOFING				
	12.37S	RAIN WATER SPOUT AND PIPE				

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44	12.50	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) of total coated thickness 0.50 mm (base metal of minimum 0.45 mm thickness with total coating thickness of 0.05 mm) 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.	Sqm	200	738.65	147730
	12.51	Providing and fixing precoated galvanised steel sheet roofing accessories of total coated thickness 0.50 mm (base metal of minimum 0.45 mm thickness with total coating thickness of 0.05 mm) with Zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/ self tapping screws complete :				
45	12.51.1	Ridges plain (500 - 600mm)	Metre	20	532.35	10647
	13.0	FINISHING				
	13.4S	CEMENT PLASTER (IN COARSE SAND)				
	13.4	12 mm cement plaster of mix :				
46	13.4.1	1:4 (1 cement: 4 coarse sand)	Sqm	1080	357.35	385938
	13.5	15 mm cement plaster on rough side of single or half brick wall of mix:				
47	13.5.2	1:6 (1 cement: 6 coarse sand)	Sqm	36	395.35	14232.6
	13.20S	PEBBLE DASH PLASTER				
48	13.26	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	Sqm	36	262.7	9457.2
	13.37S	INTERIOR FINISHING				
	13.41	Distemping with 1st quality acrylic distemper (ready mixed) having VOC content less than 50 gram/litre, of approved manufacturer and of required shade and colour all complete to achieve even shade and colour :				
49	13.41.1	New work (two or more coats) over and including water thinnable priming coat with cement primer having VOC content less than 50 gram/litre	Sqm	1620	185.65	300753
	13.44S	EXTERIOR FINISHING				
	13.44	Finishing walls with water proofing cement paint of required shade :				
50	13.44.1	New work (Two or more coats applied @ 3.84 kg/10 sqm)	Sqm	1620	116.9	189378

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	13.48A	Finishing walls with 100% Premium acrylic emulsion paint (Company Depot Tinted) having VOC less than 50 gm/litre and UV resistance as per IS 15489:2004, Alkali & fungal resistance, dirt resistance exterior paint of required shade with silicon additives.				
51	13.48A.1	New work (Two or more coats applied @ 1.43 litre/ 10 sqm. Over and including priming coat of exterior primer applied @ 0.90 litre/10 sqm.	Sqm	1620	181.25	293625
	13.61	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
52	13.61.1	Two or more coats on new work	Sqm	540	155.9	84186
	15.0	DISMANTLING AND DEMOLISHING				
	15.1S	General				
53	15.3	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.	cum	61	3551.25	216626.25
	15.7	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.				
54	15.7.4	In cement mortar	cum	27	2060.2	55625.4
55	15.18	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 metres lead.	Kg	8000	5.65	45200
	15.28	Dismantling roofing including ridges, hips, valleys and gutters etc., and stacking the material within 50 metres lead of:				
56	15.28.1	G.S. Sheet	Sqm	15	164.95	2474.25
	17.0	SANITARY INSTALLATIONS				
	17.1S	General				
	17.1	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:				
57	17.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	Each	.9	6767.4	6090.66
	17.2	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required :				
58	17.2.1	W.C. pan with ISI marked white solid plastic seat and lid	Each	1.8	6515.55	11727.99

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	17.5	Providing and fixing white vitreous china flat back half stall urinal of size 580x380x350 mm with white PVC automatic flushing cistern, with fittings, standard size C.P. brass flush pipe, spreaders with unions and clamps (all in C.P. brass) with waste fitting as per IS : 2556, C.I. trap with outlet grating and other couplings in C.P. brass, including painting of fittings and cutting and making good the walls and floors wherever required :				
59	17.5.1	Single half stall urinal with 5 litre P.V.C. automatic flushing cistern	Each	1.8	12071.75	21729.15
	17.7	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:				
60	17.7.1	White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps	Each	3.6	2648.85	9535.86
	17.10	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS:13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required :				
	17.10.2	Kitchen sink without drain board				
61	17.10.2.1	610x510 mm bowl depth 200 mm	Each	1.8	4940.8	8893.44
	17.25	Providing and fixing white vitreous china wash basin including making all connections but excluding the cost of fittings :				
62	17.25.1	Flat back wash basin of size 630x450 mm	Each	1.8	1339.7	2411.46
	17.28	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.				
	17.28.2	Flexible pipe				
63	17.28.2.1	32 mm dia	Each	3.6	119.55	430.38
	17.32	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing :				
64	17.32.2	Rectangular shape 453x357 mm	Each	1.8	1361.8	2451.24
	17.35	Providing and fixing soil, waste and vent pipes :				
	17.35.1	100 mm dia				
65	17.35.1.1	Sand cast iron S&S pipe as per IS: 1729	Metre	22.5	1151.9	25917.75
	17.70	Providing and fixing PTMT Bottle Trap for Wash basin and sink.				
66	17.70.2	Bottle trap 38 mm single piece moulded with height of 270 mm, effective length of tail pipe 260 mm from the centre of the waste coupling, 77 mm breadth with 25 mm minimum water seal, weighing not less than 263 gms	Each	1.8	375.65	676.17
67	17.71	Providing and fixing PTMT liquid soap container 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour, weighing not less than 105 gms.	Each	1.8	168.35	303.03

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	17.73	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour.				
68	17.73.1	450 mm long towel rail with total length of 495 mm, 78 mm wide and effective height of 88 mm, weighing not less than 170 gms	Each	1.8	673.4	1212.12
	18.0	WATER SUPPLY				
	18.4S	PP-R PIPES				
	18.4	Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes confirming to IS 15801, UV stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings and fixing the pipe with clamps at 1.00 m spacing. This includes testing of joints complete as per direction of Engineer-in-Charge. (Internal Exposed on walls)				
69	18.4.2	PN - 16 Pipe, 25mm OD (SDR-7.4)	Metre	225	318.35	71628.75
70	18.4.3	PN - 16 Pipe, 32mm OD (SDR-7.4)	Metre	180	362.9	65322
71	18.4.4	PN - 16 Pipe, 40mm OD (SDR-7.4)	Metre	225	545.75	122793.75
	18.6	Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes confirming to IS:15801 UV stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings, including trenching, refilling & testing of joints complete as per direction of Engineer-in-Charge. External work				
72	18.6.4	PN - 16 Pipe, 40 mm OD (SDR-7.4)	Metre	135	415.1	56038.5
73	18.6.5	PN - 10 Pipe, 50 mm OD (SDR-11)	Metre	90	450.95	40585.5
	18.6A	Providing and fixing PPR Unions				
74	18.6A.1	PPR Union 20mm	Each	45	315.5	14197.5
75	18.6A.2	PPR Union 25mm	Each	45	334	15030
76	18.6A.3	PPR Union 32mm	Each	45	403.7	18166.5
77	18.6A.4	PPR Union 40mm	Each	45	543.1	24439.5
	18.7S	C.P.V.C. PIPES				
	18.12	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. External work				
78	18.12.6	50 mm dia nominal bore	Metre	270	762.15	205780.5
79	18.12.7	65 mm dia nominal bore	Metre	225	896.6	201735
	18.15S	BRASS FITTINGS				
	18.16	Providing and fixing brass stop cock of approved quality :				
80	18.16.1	15 mm nominal bore	Each	45	353.25	15896.25
	18.31S	C.I. SLUICE VALVES/ FIRE HYDRANTS & FIXTURES				
81	18.48	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	Per Litre	4500	11	49500
	18.49S	C.P. BRASS FITTINGS				
	18.49	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :				
82	18.49.1	15 mm nominal bore	Each	9	506.8	4561.2

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	18.51	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.				
83	18.51.1	15 mm nominal bore	Each	1.8	798.95	1438.11
	18.54S	PTMT FITTINGS				
	18.58	Providing and fixing PTMT grating of approved quality and colour.				
	18.58.1	Circular type				
84	18.58.1.1	100 mm nominal dia	Each	1.8	37.6	67.68
	18.59S	AIR VALVE & WATER METER (BULK TYPE)				
	18.62	Providing and fixing PTMT Ball cock of approved quality, colour and make complete with Epoxy coated aluminium rod with L.P./ H.P.H.D. plastic ball.				
85	18.62.4	40 mm nominal bore, 206mm long, weighing not less than 690 gms	Each	22.5	737.2	16587
86	18.64	Providing and fixing PTMT swivelling shower, 15 mm nominal bore, weighing not less than 40 gms	Each	1.8	121.4	218.52
	21.0	ALUMINIUM WORK				
	21.1S	General				
	21.1	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, panelling and dash fasteners to be paid for separately) :				
	21.1.1	For fixed portion				
87	21.1.1.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	Kg	54	530.9	28668.6
	21.1.2	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately)				
88	21.1.2.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	Kg	27	634.45	17130.15
	21.3	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item):				
89	21.3.1	With float glass panes of 4.0 mm thickness (weight not less than 10kg/sqm)	Sqm	18	1176.8	21182.4
	23.0	RAIN WATER HARVESTING & TUBEWELLS				
	23.1S	General				

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	23.1	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer-in-charge, upto 90 metre depth below ground level.				
	23.1.1	All types of soil				
90	23.1.1.2	350 mm dia	Metre	27	774.05	20899.35
	23.1.2	Rocky strata including Boulders				
91	23.1.2.1	300 mm dia	Metre	27	1695.1	45767.7
	23.3	Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC medium well casing (CM) pipe of required dia, conforming to IS: 12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer -in-charge.				
92	23.3.2	150 mm nominal size dia	Metre	27	793.25	21417.75
	23.4	Supplying, assembling, lowering and fixing in vertical position in bore well unplasticized PVC medium well screen (RMS) pipes with ribs, conforming to IS: 12818, including hire & labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer-in-charge.				
93	23.4.2	150 mm nominal size dia	Metre	27	807.45	21801.15
94	23.12	Development of tube well in accordance with IS : 2800 (part I) and IS: 11189, to establish maximum rate of usable water yield without sand content (beyond permissible limit), with required capacity air compressor, running the compressor for required time till well is fully developed, measuring yield of well by V notch method or any other approved method, measuring static level & draw down etc. by step draw down method, collecting water samples & getting tested in approved laboratory, including disinfection of tubewell, all complete, including hire & labour charges of air compressor, tools & accessories etc., all as per requirement and direction of Engineer-in-charge.	Hour	13.5	1085.05	14648.18
					Total	13169353.10
Item- 22	Road and parking area, Retail space Master Plan					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
	2.0	EARTH WORK				
	2.1S	General				
	2.1	Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including getting out and disposal of excavated earth upto 50 m and lift upto 1.5 m, as directed by Engineer-in- Charge:				
1	2.1.1	All kinds of soil	Sqm	180	129.85	23373

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	2.6	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and for all lift, as directed by Engineer-in-charge.				
2	2.6.1	All kinds of soil	cum	892	177.5	158330
3	2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	cum	108	2123.75	229365
	2.33	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.				
4	2.33.1	Beyond 30 cm girth upto and including 60 cm girth	Each	3150	532.35	1676902.5
	4.0	CONCRETE WORK				
	4.1S	CEMENT CONCRETE (CAST IN SITU)				
	4.3	Centering and shuttering including strutting, propping etc. and removal of form work for :				
5	4.3.1	Foundations, footings, bases for columns	Sqm	86.4	392.15	33881.76
	4.5S	CEMENT CONCRETE PRECAST				
	4.6	Providing and fixing at or near ground level precast cement concrete in kerbs, edgings etc. as per approved pattern and setting in position with cement mortar 1:3 (1 Cement : 3 coarse sand), including the cost of required centering, shuttering complete.				
6	4.6.1	1:1 1/2:3 (1 Cement: 1 1/2 coarse sand (zone-III) derived from natural sources: 3 graded stone aggregate 20 mm nominal size derived from natural sources).	cum	1.44	8726.85	12566.66
	5.0	REINFORCEMENT CEMENT CONCRETE				
	5.1S	CAST IN SITU				
	5.1	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :				
7	5.1.2	1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	82.8	9045.75	748988.1
	5.2	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement :				
8	5.2.2	1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	93.6	10852.95	1015836.12

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9	5.8	Reinforced cement concrete work in vertical and horizontal fins individually or forming box louvers, facias and eaves boards above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20mm nominal size derived from natural sources).	cum	18	11454.35	206178.3
	5.9S	FORM WORK				
	5.9	Centering and shuttering including strutting, propping etc. and removal of form for				
10	5.9.3	Suspended floors, roofs, landings, balconies and access platform	Sqm	914.4	927.25	847877.4
11	5.9.5	Lintels, beams, plinth beams, girders, bressummers and cantilevers	Sqm	259.2	736.4	190874.88
12	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts	Sqm	331.2	961.3	318382.56
13	5.9.19	Weather shade, Chajjas, corbels etc., including edges	Sqm	7.2	951.1	6847.92
	5.12S	PRE-CAST RCC				
14	5.12	Providing, hoisting and fixing above plinth level up to floor five level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like, including the cost of required centering, shuttering but , excluding cost of reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	cum	32.4	10585.9	342983.16
	5.22S	STEEL REINFORCEMENT				
	5.22	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.				
15	5.22.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	16916.4	107.85	1824433.74
	5.22A	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.				
16	5.22A.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	25984.8	107.85	2802460.68
	5.23S	MISCELLANEOUS				
17	5.30	Add for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections.	Metre	32.4	78.4	2540.16
	6.0	MASONRY WORK				
	6.1S	General				
	6.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				
18	6.1.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	108	7132.25	770283
	6.4	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 :				
19	6.4.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	315	9105.95	2868374.25

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	6.12S	HALF BRICK MASONRY				
	6.12	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in :				
20	6.12.2	cement mortar 1:4 (1 cement : 4 coarse sand)	Sqm	108	905.05	97745.4
	6.13	Half brick masonry 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.				
21	6.13.2	Cement mortar 1:4 (1 cement :4 coarse sand)	Sqm	675	1123.8	758565
	7.0	STONE WORK				
	7.24S	MISCELLANEOUS STONE WORK				
	7.38	Stone tile work for wall lining upto 10 m height with special adhesive over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand), including pointing in white cement with an admixture of pigment to match the stone shade.				
	7.38.1	8 mm thick (mirror polished and machine cut edge)				
22	7.38.1.1	Granite stone of any colour and shade	Sqm	76.5	3094.55	236733.08
	8.0	CLADDING WORK				
	8.1S	General				
	8.2	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 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				
	8.2.2	Granite stone slab colour black, Cherry/Ruby red				
23	8.2.2.2	Area of slab over 0.50 sqm	Sqm	18	5136.3	92453.4
	8.20S	STONE WORK DRY CLADDING				
24	8.31	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	Sqm	72	1267.95	91292.4
	9.0	WOOD AND P.V.C. WORK				
	9.40S	MISCELLANEOUS-WOOD WORK				
	9.48	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.				
25	9.48.1	Fixed to steel windows by welding	Kg	1800	219.1	394380
26	9.48.2	Fixed to openings /wooden frames with rawl plugs screws etc.	Kg	2025	238.35	482658.75

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	9.70S	STAINLESS STEEL FITTINGS				
	9.70	Providing and fixing IS : 12817 marked stainless steel butt hinges with stainless steel screws etc. complete :				
27	9.70.2	100X58X1.90 mm	Each	13.5	107.1	1445.85
	9.95S	ANODISED ALUMINIUM FITTINGS (ALL FITTINGS SHALL BE ISI MARKED)				
	9.97	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :				
28	9.97.4	150x10 mm	Each	21.6	82.55	1783.08
	9.100	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :				
29	9.100.1	125 mm	Each	21.6	66.25	1431
	9.105S	GYPSUM BOARD PARTITIONS				
30	9.121	Providing and fixing Fiber Glass Reinforced plastic (FRP) Door Frames of cross-section 90 mm x 45 mm having single rebate of 32mm x 15 mm to receive shutter of 30 mm thickness. The laminate shall be moulded with fire resistant grade unsaturated polyester resin and chopped mat. Door frame laminate shall be 2 mm thick and shall be filled with suitable wooden block in all the three legs. The frame shall be covered with fiber glass from all sides. M.S. stay shall be provided at the bottom to steady the frame.	Metre	40.5	570.95	23123.48
	9.122	Providing and fixing to existing door frames.				
31	9.122.1	30 mm thick Glass Fibre Reinforced Plastic (FRP) panelled door shutter of required colour and approved brand and manufacture, made with fire - retardant grade unsaturated polyester resin, moulded to 3 mm thick FRP laminate for forming hollow rails and styles, with wooden frame and suitable blocks of seasoned wood inside at required places for fixing of fittings, cast monolithically with 5 mm thick FRP laminate for panels conforming to IS: 14856, including fixing to frames.	Sqm	54	3720.75	200920.5

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	9.147	Providing and fixing factory made uPVC glazed/wire mesh windows/ doors comprising of lead free uPVC multi-chambered frame, sash and mullion/coupler (where ever required) extruded profiles having minimum wall thickness of 1.70 mm for Series R1 and R2 profiles and 2.10 mm for Series R3 and R4 profiles conforming to EN: 12608 in any shape, colour and design duly reinforced with galvanized mild steel section made of required shape & size as per CPWD Specification, uPVC extruded glazing beads, interlocks and Inline sash adaptor (where ever required) of appropriate dimension, EPDM gasket, hardware, SS 304 grade fasteners of minimum 8 mm dia with countersunk head, comprising of matching polyamide PA6 grade sleeve for fixing frame to finished wall as per IS 1367 : Part 1 to 14, plastic packers, plastic caps and necessary stainless steel screws etc. Profile of frame, sash & mullion (if required) shall be mitred cut and fusion welded/mechanically jointed duly sealed at all corners, including drilling of holes for fixing hardware and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of approved size and quality, all complete as per approved drawing conforming to CPWD specification & direction of Engineer-in-Charge. Section of steel reinforcement and cross sections of uPVC profiles to be as per design approved by Engineer-in-Charge. Wire mesh / Glazing of plain/ toughened/ laminated/ double glass unit with / without high performance coatings as per design requirements and conforming to IS: 3548 & IS: 16231 shall be paid separately.				
	9.147.A4	Three track three panels sliding window with two glazed & one wire mesh panels with Aluminium channel for roller track, wool pile, nylon rollers with SS 304 body.				
32	9.147.A4.3	Using R4 series with frame (115 mm & above) x (45 mm & above) & both glazed and fly screen sash (44 mm & above) x (55 mm & above) with zinc alloy (zamak) powder coated handle on every glazed panel along with multipoint locking system. (Height above 1.8m)	Sqm	54	12372.25	668101.5
	9.147.B3	Three track three panels sliding door with two glazed & one wire mesh panels with Aluminium channel for roller track, wool pile, zinc alloy (zamak) powder coated handle on two panels along with multi-point locking system, adjustable nylon rollers with SS 304 body				
33	9.147.B3.1	Using R3 series with frame (98mm & above) x (40mm & above) & both glazed and fly screen sash (30mm & above) x (74mm & above). (Height upto 2.5 meter).	Sqm	54	10078.95	544263.3
	10.0	STEEL WORK				
	10.1S	General				

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	10.5	Providing and fixing 1 mm thick M.S. sheet door with frame of 40x40x6 mm angle iron and 3 mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer.				
34	10.5.1	Using M.S. angels 40x40x6 mm for diagonal braces	Sqm	36	5804.35	208956.6
35	10.5.2	Using flats 30x6 mm for diagonal braces and central cross piece	Sqm	8.64	5563.75	48070.8
	10.25	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.				
36	10.25.2	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	Kg	1350	172.6	233010
	10.26	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approved steel primer.				
37	10.26.1	M.S. tube	Kg	225	196.8	44280
38	10.28	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, including fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).	Kg	135	772.4	104274
	11.0	FLOORING				
	11.16S	TILE FLOORING				
	11.21	Providing and fixing 10 mm thick acid and/or alkali resistant tiles of approved make and colour using acid and/or alkali resisting mortar bedding, and joints filled with acid and/or alkali resisting cement as per IS : 4457, complete as per the direction of Engineer-in- Charge.				
	11.21.1	In flooring on a bed of 10 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand)				
39	11.21.1.1	Acid and alkali resistant tile	Sqm	45	1738.15	78216.75
	11.37S	CERAMIC GLAZED TILES				
40	11.37	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), Jointing with grey cement slurry @ 3.3 kg/sqm including pointing the joints with white cement and matching pigment etc., complete.	Sqm	765	1096.55	838860.75

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41	11.37A	Providing and fixing 1st quality ceramic glazed floor tiles conforming to IS : 15622 (thickness to be specified by the manufacturer) of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge in skirting, risers of steps and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement: 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete.	Sqm	180	1112.7	200286
	11.41S	VITRIFIED FLOOR TILES				
	11.55	Providing and laying flamed finish Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge :				
42	11.55.1	Flamed finish granite stone slab Jet Black, Cherry Red, Elite Brown, Cat Eye or equivalent.	Sqm	108	3186.7	344163.6
	12.0	ROOFING				
	12.37S	RAIN WATER SPOUT AND PIPE				
	12.41	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.				
43	12.41.2	110 mm diameter	Metre	108	377.4	40759.2
	13.0	FINISHING				
	13.1S	CEMENT PLASTER (IN FINE SAND)				
	13.1	12 mm cement plaster of mix :				
44	13.1.1	1:4 (1 cement: 4 fine sand)	Sqm	108	347.05	37481.4
45	13.1.2	1:6 (1 cement: 6 fine sand)	Sqm	225	333.35	75003.75
	13.2	15 mm cement plaster on the rough side of single or half brick wall of mix :				
46	13.2.2	1:6 (1 cement: 6 fine sand)	Sqm	1080	383	413640
	13.4S	CEMENT PLASTER (IN COARSE SAND)				
	13.5	15 mm cement plaster on rough side of single or half brick wall of mix:				
47	13.5.2	1:6 (1 cement: 6 coarse sand)	Sqm	3240	395.35	1280934
	13.20S	PEBBLE DASH PLASTER				
48	13.26	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	Sqm	2250	262.7	591075
	13.37S	INTERIOR FINISHING				
	13.41	Distemping with 1st quality acrylic distemper (ready mixed) having VOC content less than 50 gram/litre, of approved manufacturer and of required shade and colour all complete to achieve even shade and colour :				

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49	13.41.1	New work (two or more coats) over and including water thinnable priming coat with cement primer having VOC content less than 50 gram/litre	Sqm	2700	185.65	501255
	13.44S	EXTERIOR FINISHING				
	13.44	Finishing walls with water proofing cement paint of required shade :				
50	13.44.1	New work (Two or more coats applied @ 3.84 kg/10 sqm)	Sqm	2700	116.9	315630
	13.47	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade:				
51	13.47.1	New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 0.90 litre/10 sqm)	Sqm	1350	171.1	230985
	13.48	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :				
52	13.48.1	Two or more coats applied on walls @ 1.25 ltr/10 sqm over and including one coat of Special primer applied @ 0.75 ltr /10 sqm	Sqm	315	193.7	61015.5
53	13.48.2	Painting wood work with Deluxe Multi Surface Paint of required shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @0.75 ltr/10 sqm of approved brand and manufacture	Sqm	18	176.25	3172.5
54	13.48.3	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @ 0.80 ltr/10 sqm of approved brand and manufacture	Sqm	22.5	170.7	3840.75
	13.61	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
55	13.61.1	Two or more coats on new work	Sqm	144	155.9	22449.6
	15.0	DISMANTLING AND DEMOLISHING				
	15.1S	General				
56	15.6	Extra for scrapping, cleaning and straightening reinforcement from R.C.C. or R.B. work.	Kg	108	9.05	977.4
	15.43	Dismantling 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 :				
57	15.43.2	bituminous road	Sqm	720	428.5	308520
	16.0	ROAD WORK				
	16.1S	ROADS				
	16.3	Supplying and stacking at site.				
58	16.3.2	63 mm to 45 mm size stone aggregate	cum	108	1636.05	176693.4
59	16.4	Laying, spreading and compacting stone aggregate of specified sizes to WBM specifications in uniform thickness, hand picking, rolling with 3 wheeled road/vibratory roller 8-10 tonne capacity in stages to proper grade and camber, applying and brooming requisite type of screening / binding material to fill up interstices of coarse aggregate, watering and compacting to the required density .	cum	108	1046.95	113070.6
	16.30S	PREMIX CARPET				

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	16.30	Providing and applying tack coat using hot straight run bitumen of grade VG - 10, including heating the bitumen, spraying the bitumen with mechanically operated spray unit fitted on bitumen boiler, cleaning and preparing the existing road surface as per specifications :				
60	16.30.1	On W.B.M. @ 0.75 Kg / sqm	Sqm	765	60.5	46282.5
	16.40S	SEAL COAT				
61	16.41	Providing and laying seal coat over prepared surface of road with bitumen heated in bitumen boiler fitted with the spray set spraying using 98 kg of bitumen of grade VG - 10 and blinding surface with 0.90 cum of stone aggregate of 6.7 mm size (Passing 11.2 mm sieve and retained on 2.36 mm sieve) per 100 sqm of road surface, including rolling and finishing with power road roller all complete..	Sqm	810	130.85	105988.5
	16.49S	MISCELLANEOUS				
	16.54	Providing and laying Dense Graded Bituminous Macadam using crushed stone aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site by tippers, laying with paver finisher equipped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers as per specifications to achieve the desired compaction and density, complete as per specifications and directions of Engineer-in-Charge.				
62	16.54.1	50 to 100 mm average compacted thickness with bitumen of grade VG-30 @ 5% (percentage by weight of total mix) and lime filler @2% (percentage by weight of Aggregate) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity.	cum	90	11129.55	1001659.5
	16.91	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.				
63	16.91.1	60mm thick cement concrete paver block of M-35 grade with approved colour, design & pattern.	Sqm	135	1045.65	141162.75
	17.0	SANITARY INSTALLATIONS				
	17.1S	General				

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	17.1	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:				
64	17.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	Each	9	6767.4	60906.6
65	17.1.2	Stainless Steel AISI-304(18/8) Orissa pattern W.C. pan of size 585x480 mm with flush pipe and integrated type foot rests	Each	9	11390.95	102518.55
	17.2	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required :				
66	17.2.1	W.C. pan with ISI marked white solid plastic seat and lid	Each	18	6515.55	117279.9
	17.4	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 :				
67	17.4.1	One urinal basin with 5 litre white P.V.C. automatic flushing cistern	Each	9	6258.75	56328.75
	17.7	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:				
68	17.7.1	White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps	Each	9	2648.85	23839.65
69	17.7.4	White Vitreous China Flat back wash basin size 550x 400 mm with single 15 mm C.P. brass pillar tap	Each	9	1879.2	16912.8
	17.13	Providing and fixing white vitreous china water closet squatting pan (Indian type) :				
70	17.13.2	Orissa pattern W.C. pan of size 580x440 mm	Each	9	3169.05	28521.45
71	17.16A	Providing and fixing 8 mm dia C.P. / S.S. Jet with flexible tube upto 1 metre long with S.S. triangular plate to European type W.C. of quality and make as approved by Engineer - in - charge.	Each	9	349.15	3142.35
	17.28	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.				
	17.28.2	Flexible pipe				
72	17.28.2.1	32 mm dia	Each	9	119.55	1075.95

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	17.32	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing :				
73	17.32.4	Rectangular shape 1500x450 mm	Each	9	2093	18837
	17.35	Providing and fixing soil, waste and vent pipes :				
	17.35.2	75 mm diameter :				
74	17.35.2.1	Sand cast iron S&S pipe as per IS: 1729	Metre	108	1044.75	112833
	17.36	Providing and filling the joints with spun yarn, cement slurry and cement mortar 1:2 (1 cement : 2 fine sand) in S.C.I./ C.I. Pipes :				
75	17.36.1	75 mm dia pipe	Each	28.8	168.2	4844.16
76	17.71	Providing and fixing PTMT liquid soap container 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour, weighing not less than 105 gms.	Each	4.32	168.35	727.27
	17.73	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour.				
77	17.73.1	450 mm long towel rail with total length of 495 mm, 78 mm wide and effective height of 88 mm, weighing not less than 170 gms	Each	4.32	673.4	2909.09
	18.0	WATER SUPPLY				
	18.4S	PP-R PIPES				
	18.4	Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes confirming to IS 15801, UV stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings and fixing the pipe with clamps at 1.00 m spacing. This includes testing of joints complete as per direction of Engineer-in-Charge. (Internal Exposed on walls)				
78	18.4.4	PN - 16 Pipe, 40mm OD (SDR-7.4)	Metre	93.6	545.75	51082.2
	18.7S	C.P.V.C. PIPES				
	18.8	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings and fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc.				
79	18.8.1	15 mm nominal dia Pipes	Metre	180	497.8	89604
80	18.8.2	20 mm nominal dia Pipes	Metre	72	537.6	38707.2
81	18.8.3	25 mm nominal dia Pipes	Metre	50.4	627.25	31613.4
82	18.8.4	32 mm nominal dia Pipes	Metre	43.2	739.3	31937.76

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	18.9	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. External work				
83	18.9.3	25 mm nominal dia Pipes	Metre	64.8	355.4	23029.92
84	18.9.6	50 mm nominal dia Pipes	Metre	64.8	794.25	51467.4
	18.10	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, including cutting and making good the walls etc. (Internal work - Exposed on wall)				
85	18.10.1	15 mm dia nominal bore	Metre	86.4	366.4	31656.96
86	18.10.2	20 mm dia nominal bore	Metre	108	437.3	47228.4
	18.12	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. External work				
87	18.12.5	40 mm dia nominal bore	Metre	259.2	617.05	159939.36
	18.13	Making connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete :				
88	18.13.1	25 to 40 mm nominal bore	Each	8.64	911.9	7878.82
	18.15S	BRASS FITTINGS				
	18.17	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :				
89	18.17.1	25 mm nominal bore	Each	9	622.4	5601.6
	18.31S	C.I. SLUICE VALVES/ FIRE HYDRANTS & FIXTURES				
	18.46	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) :				
90	18.46.3	25 mm nominal bore	Each	22.5	439.25	9883.13
91	18.48	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	Per Litre	4498.82	11	49487.02
	18.49S	C.P. BRASS FITTINGS				
	18.49	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :				
92	18.49.1	15 mm nominal bore	Each	18	506.8	9122.4
	18.52	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.				
93	18.52.1	15 mm nominal bore	Each	4.32	670.45	2896.34
	18.53	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931				
94	18.53.1	15mm nominal bore	Each	2.88	574.3	1653.98
95	18.53A	Providing and fixing C.P. Brass extension nipple (size 15mmx50mm) of approved make and quality as per direction of Engineer-in-charge.	Each	10.8	74.8	807.84
	21.0	ALUMINIUM WORK				
	21.1S	General				

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	21.1	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, panelling and dash fasteners to be paid for separately) :				
	21.1.1	For fixed portion				
96	21.1.1.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	Kg	36	495.05	17821.8
	21.1.2	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately)				
97	21.1.2.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	Kg	67.5	598.6	40405.5
	21.3	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item):				
98	21.3.1	With float glass panes of 4.0 mm thickness (weight not less than 10kg/sqm)	Sqm	9	1176.8	10591.2
					Total	26510183.53
Schedule	Schedule B- (Item Directory -CPWD HORTICULTURE 2020-Ver-2)					
Item- 23	development of green zone in circulating area					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
	2.0	HORTICUTURE AND LANDSCAPING				
1	2.1	Trenching in ordinary soil up to a depth of 60 cm including removal and stacking of serviceable materials and then disposing of surplus soil, by spreading and neatly levelling within a lead of 50 m and making up the trenched area to proper levels by filling with earth or earth mixed with sludge or / and manure before and after flooding trench with water (excluding cost of imported earth, sludge or manure).	cum	136.8	78.1	10684.08
2	2.2	Supplying and stacking of good earth at site including royalty and carriage upto 5 km lead complete (earth measured in stacks will be reduced by 20% for payment).	cum	1252.25	515.6	645660.1

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3	2.3	Supplying and stacking sludge at site including royalty and carriage upto 5 km lead complete (sludge measured in stacks will be reduced by 8% for payment).	cum	322	294	94668
4	2.8	Spreading of sludge, dump manure and/or good earth in required thickness as per direction of officer-in-charge (cost of sludge, dump manure and/ or good earth to be paid separately).	cum	830	52.35	43450.5
	2.10	Grassing with selection No. 1/ Doob grass including watering and maintenance of the lawn for 30 days or more till the grass forms a thick lawn, free from weeds and fit for mowing including supplying good earth, if needed (the grass and good earth shall be paid for separately).				
5	2.10.1	In rows 5 cm apart in both directions	Sqm	364.8	17.7	6456.96
6	2.10.2	With grass Turf	Sqm	456	13.3	6064.8
7	2.12	Uprooting rank vegetation and weeds by digging the area to a depth of 60 cm, removing all weeds and other growth with roots by forking repeatedly, breaking clods, rough dressing, flooding with water, uprooting fresh growths after 10 to 15 days and then fine dressing for planting new grass, including disposal of all rubbish with all leads and lifts.	Sqm	380	60.95	23161
8	2.23	Excavation in water bound macadam road including stacking the serviceable and unserviceable material, separately and disposal of unserviceable material, lead up to 50 m and lift up to 1.5 m, disposed material to be neatly dressed.	cum	799	701.35	560378.65
9	2.26	Providing and fixing M. S. tree guard 45 cm square in plan, height 1.20 metre above ground level and 0.40 metre below ground level. The vertical members shall consist of four nos. angle iron of size 25x25x3 mm, 1.6 m long, one at each corner and 8 nos flat iron of size 25x3 mm, 1.2 m long. The vertical members shall be welded to 4 nos. 25x6 mm M. S. flats placed horizontally around the vertical member of the cage. One name plate of 1mm thick M.S. sheet of size 250x100 mm shall be welded to the tree guard near the middle height and lettered CPWD/ PWD/ any other approved name. The tree guard shall be fixed to the ground by making suitable holes and by embedding four corners leg in the ground, including refilling the earth, compaction etc. complete. The tree guard shall be painted with two or more coats of synthetic enamel paint of approved brand and manufacture over a coat of primer, complete in all respect.	Each	60.8	2219.25	134930.4
10	2.28	Preparation of mounds of various size and shape by available excavated / supplied earth in layers not exceeding 20 cm in depth, breaking clods, watering of each layer, dressing etc., lead upto 50 meter and lift upto 1.5 m complete as per direction of Officer-in-charge.	cum	60.8	456.35	27746.08

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	2.31	Filling of the following size empty pots with mixture of good earth & manure in the ratio of 2:1 (Two part of Good earth & one port of manure) and placing them on appropriate place i/c carriage of earth, manure and pots up to 50 mtr, as per direction of officer incharge. (The cost of good earth, earthen pots & manure will be paid seperately.)				
11	2.31.1	Size of Empty Pots 15cm Top dia, 8cm Bottom Dia & 15cm Perpendicular height.	Each	182.4	7.65	1395.36
12	2.31.2	Size of Empty Pots 16cm Top dia, 12cm Bottom Dia & 14cm Perpendicular height.	Each	136.8	7.8	1067.04
13	2.31.6	Size of Empty Pots 25cm Top dia, 15cm Bottom Dia & 25cm Perpendicular height.	Each	152	22.25	3382
14	2.31.7	Size of Empty Pots 35cm Top dia, 25cm Bottom Dia & 35cm Perpendicular height.	Each	760	45.75	34770
15	2.33	Providing and laying Neelgiri/Mexican grass turf with earth 50mm to 60mm thickness of existing ground prepared with proper level and ramming with tools wooden (Dhurmos) and then rolling the surface with light roller make the surface smoothen and light watering with sprinkler and maintenance for 30 days or more till the grass establish properly, as per direction of officer-in-charge	Sqm	2980	214.4	638912
16	2.36	Cutting of Hedge/Edge including removing of cut material, cleaning, hoeing of hedge/edge bed watering, manuring and applying insecticides and fungicides etc. (excluding the cost of material which shall be supplied by the department) and as per direction of officer in charge.	Sqm per month	60.8	22.6	1374.08
17	2.53	Providing and wartering of irrigation water through water tanker of Horticulture features i.e. lawn, tree, shrubs, hedge/edge, ground cover etc. at the site of work. Water tanker having 5000 lit. capacity with one labour for watering i/c cost of water, filling of tanker, wartering at site with all leads and lifts as per direction of officer-in-charge.	Per Trip	91.2	932.95	85085.04
18	2.54	Anti termite treatment by digging holes 30 cm deep and 4 cm dia, 6 to 7 holes around the tree using chemical emulsion at the rate of 1.5 liter per hole in two time or more application to get the trees free from termite infection chemicals used Chlorpyriphos 20% EC in the ratio of 1% concentration and as per direction of officer-in-charge.	Per tree	76	51.2	3891.2
	2.57	Plantation of Trees, Shrubs, and Hedge at site i/c watering and removal of unserveiceable material's as per direction of officer in charge (excluding cost of plant & water)				
19	2.57.1	Trees Plant	Each	1064	7.3	7767.2
20	2.57.2	Shrubs Plant	Each	988	3.65	3606.2
21	2.57.3	Hedge Plant /Ground cover	Each	456	2.45	1117.2
	3.0	FOLIAGE AND SHADE LOVING PLANTS				
22	3.74	Providing and displaying of Phoenix palm having ht. 75 cm to 90 cm with 10 to 15 or more leaves, well developed, fresh and healthy in 25 cm size of Earthen pot/Plastic pot & as per direction of the officer-in-charge.	Each	53.2	215.25	11451.3

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23	3.76	Providing and displaying of Raphis palm having ht. 75 cm to 90 cm with 12 to 15 equal suckers, well developed, full of fresh & healthy leaves from bottom to top in 25 cm size Earthen pot/Plastic pot & as per direction of the officer-in-charge.	Each	91.2	322.9	29448.48
24	3.77	Providing and displaying of Raphis Palm having ht. 75 cm to 90 cm with 15 to 18 equal suckers, well developed, full of fresh and healthy leaves from bottom to top in 35 cm PVC Pots/C.Pots & as per direction of the officer-in-charge.	Each	76	353.65	26877.4
	5.0	ORNAMENTAL PLANTS				
25	5.2	Providing and Displaying Acalypha green well developed, fresh & healthy with good foliage, multi branch 30 to 45 cm ht. in 20 cm size Earthen Pot/ Plastic Pot bushy as per direction of the officer-in-charge.	Each	53.2	35.9	1909.88
26	5.3	Providing and Displaying Acalypha red well developed with fresh & healthy 30 to 45 cm ht. in 20 cm size Earthen Pot/ Plastic Pot as per direction of the officer-in-charge.	Each	30.4	41	1246.4
27	5.11	Providing and Displaying Bismarckia Palm 115 to 180 cm ht., well developed 12 and above good color fresh and healthy leaves in 40 cm Cement Pot as per direction of the officer-in-charge.	Each	30.4	1937.25	58892.4
28	5.14	Providing and Displaying Cycus revoluta in 35 cm challi, specimen, having 30 to 40 with fresh and healthy, leaves having 25cm to 30cm Circumference of base stem well developed as per direction of the officer-in-charge.	Each	38	1183.9	44988.2
29	5.15	Providing and Displaying Cycus revoluta specimen , having 45 to 50 fresh and healthy, leaves having 30cm to 35cm Circumference of base stem well developed in 40 cm challi, as per direction of the officer-in-charge.	Each	53.2	1537.5	81795
30	5.22	Providing and Displaying Ficus Nuda topiary well developed with fresh & healthy 5 to 6 big ball specific size and shape 180 to 210cm ht in 40 cm Cement Pot as per direction of the officer-in-charge.	Each	22.8	2593.25	59126.1
31	5.25	Providing and Displaying Ficus reginold well developed fresh & healthy foliage 60 to 75 cm spread 105 to 120 cm ht., Bushy in 35 cm Cement Pot as per direction of the officer-in-charge.	Each	45.6	377.2	17200.32
32	5.28	Providing and Displaying Ficus Starlight with fresh, healthy and attractive foliage 45 to 60 cm spread 75 to 90 cm ht., specimen bushy ,in 35 cm Cement Pot as per direction of the officer-in-charge.	Each	91.2	861	78523.2
33	5.31	Providing and Displaying Furcraea variegated well developed with fresh & healthy foliage 8 to 10 leaves in 30 cm Earthen Pot as per direction of the officer-in-charge.	Each	98.8	225.5	22279.4
34	5.33	Providing and Displaying Golden Bottle brush Topiary well developed with fresh & healthy foliage 5 to 6 big ball 115 to 180 cm ht in 40 cm Cement Pot as per direction of the officer-in-charge.	Each	304	973.75	296020

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35	5.35	Providing and Displaying Latania Rubra Palm well developed with fresh & healthy foliage 150 to 180 cm ht. with 6 to 7 leaves in big 35 cm Cement Pot as per direction of the officer-in-charge.	Each	30.4	1025	31160
36	5.37	Providing and Displaying Phoenix roebelenii palm well developed having 20 to 25 fresh & healthy leaves 90 to 105 cm ht. in 30 cm Cement Pot as per direction of the officer-in-charge.	Each	60.8	538.15	32719.52
37	5.44	Providing and Displaying Washingtonia filifera palm well developed 90 to 105 cm ht. having 5 to 6 straight fresh and healthy leaves in 35 cm Cement Pot as per direction of the officer-in-charge.	Each	76	538.15	40899.4
	6.0	GROUND COVERS PLANTS				
38	6.18	Providing and stacking of Juniperus prostrata with 5 to 6 lateral branches and green foliage in 20 cm size of Earthen Pot/Plastic Pot & as per direction of the officer-in-charge.	Each	380	30	11400
39	6.19	Providing and stacking of Ophiopogon, Green/Black full of leaves in 15 cm size of Earthen Pot/Plastic Pot & as per direction of the officer-in-charge.	Each	684	20	13680
40	6.21	Providing and stacking of Ophiopogon jaburan (variegated),full of variegated leaves in Earthen Pot/Plastic Pot of size 20 cm. as per direction of the officer-in-charge.	Each	532	30	15960
41	6.31	Providing and stacking of Wedelia trilobata,full of leaves in 15 cm size of Earthen Pot/Plastic Pot & as per direction of the officer-in-charge.	Each	684	15	10260
	7.0	TREE PLANTS				
42	7.42	Providing and stacking of Foxtail palm of ht. 120-150 cm bottom girth 15- 20 cm well developed in big poly bags of size 25 cm as per direction of the officer-in-charge.	Each	53.2	230	12236
43	7.44	Providing and stacking of Foxtail palm of ht. 240-270 cm bottom girth 35- 40 cm well developed in big size HDPE bags as per direction of the officer-in-charge.	Each	76	650	49400
44	7.55	Providing and stacking of Michelia champa (Golden Champa) of height 90- 105 cm. in earthen pots of size 25 cm as per direction of the officer-in-charge.	Each	380	90	34200
45	7.67	Providing and stacking of Plumeria acutifolia of height 120-135 cm. with 2- 3 branches in HDPE bag of size 30 cm as per direction of the officer-in-charge.	Each	152	110	16720
46	7.69	Providing and stacking of Plumeria alba of height 120-135 cm. with 2-3 branches in bags of size 30 cm as per direction of the officer-in-charge.	Each	182.4	120	21888
	8.0	SHRUBS				
47	8.25	Providing and stacking of Ficus panda of height 30-45 cm. with 3-4 branches and healthy foliage in p.bag of size 20 cm as per direction of the officer-in-charge.	Each	228	35	7980
48	8.27	Providing and stacking of Ficus panda of height 60-90 cm, with 8-10 branches, and healthy foliage, bushy in big size HDPE bag as per direction of the officer-in-charge.	Each	121.6	180	21888

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49	8.75	Providing and stacking of Thuja compacta of height 45-60 cm., well branched in earthen pots of size 25 cm as per direction of the officer-in-charge.	Each	456	65	29640
					Total	3415356.89
Schedule	Schedule C-(RCC Box with pushing (internal size 7.5m x5m) for 10Mtr length)					
Item- 24	(RCC Box with pushing (internal size 7.5m x5m) for 10Mtr length)					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	024010	Providing and casting machine batched, machine mixed and machine vibrated Cement Concrete of specified grade as per approved Design Mix, mixed in Mobile Concrete Batching/Mixing Plant at site or RMC from approved plants, (Cast in-Situ/Pre-cast) in bottom/top slab, side walls, toe wall and sumps haunch filling head walls, thrust bed or any other component using 20mm graded crushed stone aggregate and coarse sand of approved quality of RCC box of any size including finishing, Plasticiser in approved proportions (as per IS:9103), to modify workability without impairing strength and durability, complete as per drawings and technical specifications as directed by Engineer in charge. Note: 1. Payment for cement, reinforcement and shuttering shall be made extra under relevant item. 2. Plasticiser shall invariably be used in approved proportion to increase workability with minimum possible quantity of cement for all grade of Design Mix Concrete unless it is specifically approved citing reasons at the stage of Mix Design and in that case deduction shall be made as per relevant item.	cum	77.00	2880.63	221808.51
2	025020	Providing and applying two coats of coal tar or bitumen conforming to IS:3117-latest version on the top and sides of RCC box/slabs @ 1.70 kg/sqm after cleaning the surface with all labour and materials complete job as directed by the Engineer.	Sqm	17.00	171.20	2910.40
		Centering and shuttering including strutting, propping etc. and removal of form for :				
3	025031	All types of bridge sub-structures, e.g. pier, abutment, wing wall, retaining wall, RCC box type foundations, Abutment cap, Pier Cap, Inspection Platform & Pedestal over Pier cap, Fender wall, Diaphragm wall etc. up to 5m above ground level	Sqm	167.00	674.52	112644.84
		Supply and using Cement at Worksite				
4	025073	Pozzolana Portland Cement approved brands/makes	MT	33.00	8429.01	278157.33
		Supply of steel reinforcement of approved brands/makes for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.				
5	025082	Thermo-Mechanically Treated bars of grade Fe-500D or more of approved brands/makes.	Kg	20000.00	97.13	1942600.00

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6	031120	Casting and installation of single/twin RCC box of all sizes with or without common web section including design of pushing scheme, thrust bed, casting of all RCC components, with specified grade of controlled concrete, pushing it in correct position and alignment below Railway track/Road following all measures of track safety by 'Box pushing technique" as per approved drawings/scheme, with or without surcharge in all types of soils with disposal of surplus earth away from vent up to 1 Km, fixing arrangement for all services & utilities including parapet walls on both sides, wearing course, foot paths, plaques, drainage arrangements etc. and all other incidental works to complete the ROB/RUB/Canal crossing in all respect as per specifications to the satisfaction of Engineer-in-Charge. Note: 1. The rate includes all items of work/supplies for complete job in all respects except "cost of Reinforced cement concrete, cement, reinforcement & shuttering" of (i) main RCC Box; (ii) Thrust Bed; (iii) Footpath (iv) Parapet wall and (v) wearing Course only, which shall be paid extra under relevant items of USSOR. 2. In case Drag Sheet and/or Rail Cluster are to be used as per approved scheme and design, the same shall be paid extra under relevant item. 3. The payment for this item shall be made for the clear inner cross section area of the parent RCC Box/Boxes and barrel length i.e. clear inner volume of parent RCC Box/Boxes.	cum	375.00	5102.28	1913355.00
7	051010	Providing and laying boulders apron on river bed for protection against scour with stone boulders weighing not less than 35 kg each with voids filled with spalls complete as per drawing and Technical Specification.	cum	17.00	1680.44	28567.48
8	051030	Supplying of stone boulders weighing not less than 35 kg each at specified bridge locations.	cum	34.00	914.75	31101.50
9	052030	Supply and laying of quarry dust including consolidation, supply of all materials, labour, lead, lift, tools, plants, crossing of tracks as per drawing and technical specification as directed by the Engineer in charge in case loose slush is encountered at site of foundation before casting the foundation or laying the filtering media.	cum	7.00	1028.70	7200.90
		Grouting of masonry/concrete by injection process duly Sealing of cracks, through nipples complete as per Technical Specification and procedure given in IRBM Para No 209 including necessary admixture. Payment shall be as per use of cement by weight in case of neat cement/cement mortar grouting and weight of Epoxy in case of Epoxy Grouting. (Cement will be paid extra).				
10	052073	Epoxy Grout	Kg	17.00	1260.92	21435.64

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11	052210	Providing cast in situ bridge number plaques as per Railway drawing in cement concrete 1:2:4 mix using 20mm hard stone aggregate embedded in 30mm notch in Bridge parapet coping duly engraving the letter and figures and an arrow indicating the direction of flow and finishing the top exposed surface with cement mortar 1:3, painting letters and figures with two coats of black enamel paint on two coats of white background with all labour, tools, cement, paint etc. with all leads and lifts.	Each	4.00	932.52	3730.08
12	052250	Providing Boulder Backing behind wing wall, return wall, retaining wall with hand packed boulders & cobbles with smaller size boulders toward the back including all lead, lift, labour & other incidental charges as complete work in all respect. Payment for boulder/cobbles will be done extra.	cum	34.00	387.52	13175.68
13	052260	Dewatering of natural or accumulated water from any location. Payment to be done for Horse power of pump multiplied by pumping hours.	HP Hour	70.00	44.97	3147.90
14	211220	Supplying and filling 50 kg size empty cement polythene bags with Rly. Ballast/moorum/earth/Sand/quarry dust etc. placing the filled bags on the high banks /bridge approaches/nominated place etc. dumping and spreading at the nominated locations to profile under block period with all contractor's labour, tools, plants, loading, unloading, filling, spreading including all lead/lift etc. complete and as directed by the Engineer in charge at site including crossing of track where necessary.	Each	17.00	11.26	191.42
					Total	4580026.68
Schedule	Schedule D- NS ITEM					
Item- 25	(CST PLANT)					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Model landscaping of fountain (14' dia) flora water castle fountain water pattern-A group of geysers (consisting of 16 nos of geysers) throwing milk lead water into air producing an effect like castle. Pool size required 14 feet dia water effect 10 feet height (centre) 4 feet (out circle) max (approx) pump set 2x 7.5 HP three phase submersible mono block uminafijon singled fixed colour (Briliant white preferred) 17 Nos of water proof light cable/ panel board cable for pump set and light up to 10 mtr distance and suitable panel board shall be supplied. (A/L No.CKP-DIVN-ENGG/CKP-CENTRAL-23-24-12/00814470083099 dt. 31/07/2023)	Each	6.00	200513.00	1203078.00
2	2	Supply, installation, testing & commissiong of Bar screen chamber, Mild steel febricated as per approved drawing with spacing 20m with 1.5mm FRP lining at proposed site with all lead ,lift, loading, unloading, transportation & all applicable taxes etc as per direction of Railway's Engineer- in charge or his authorised representative at site.	Each	1.00	72389.62	72389.62

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3	3	Supply, installation, testing & commissioning of Oiltype capacity skimmer of Belt - (0-10) LPH, assembled at proposed site with 3 phase,415v, 50Hz, Acmotor of kirloskar / ABB / Siemens / BB or equivalent make,belt & all related accessories with all lead, lift, loading, unloading, transportation & all applicable taxes etc as per direction of Railway's Engineer- in charge or his authorised representative at site.	Each	1.00	60324.68	60324.68
4	4	Supply, installation, testing & commissioning of Flash Mixer of type-High speed turbine MS fabricated with AC 3 phase gear motor with base frame coupling etc. at proposed site with all lead, lift, loading, unloading, transportation & all applicable taxes etc. as per direction of Railway's Engineer- in charge or his authorised representative at site.	Each	1.00	132714.31	132714.31
5	5	Supply, installation, testing & commissioning of Flocculator of type-slow speed paddle, Mild steel fabricated with 3mm thick FRP lining with AC 3 phase gear motor with base frame coupling etc. at proposed site with all lead, lift, loading, unloading, transportation & all applicable taxes etc as per direction of Railway's Engineer- in charge or his authorised representative at site.	Each	1.00	132714.31	132714.31
6	6	Supply, installation, testing & commissioning of Primary tube settler (MS Body) with media type-Hexagonal chevron shape. Angle of inclination-60 degree with horizontal at proposed site with all lead, lift,loading, unloading, transportation & all applicable taxes etc as per direction of Railway's Engineer- in charge or his authorised representative at site.	Each	1.00	361948.12	361948.12
7	7	Supply, installation, testing & commissioning of Secondary tube settler (MS Body) with media typeHexagonal chevron shape. Angle of inclination-60 degree with horizontal at proposed site with all lead, lift, loading, unloading, transportation & all applicable taxes etc complete as per direction of Railway's Engineer- in charge or his authorised representative at site.	Each	1.00	3619848.12	3619848.12
8	8	Supply, installation, testing & commissioning of Pressure Sand filter of type-cylindrical with torispherical head, Diameter-1000mm, Straight Height-1500mm of 6mm thick shell & 8mm thick dish & 10mm thick bed plate, Media graded gravel & coarse sand, M.O.C -MS at proposed site with 50NB MS fabricated frontal pipe line, CI-butterfly valve, all lead, lift, loading, unloading, transportation & all applicable taxes etc. complete as per direction of Railway's Engineer- in charge or his authorised representative at site.	Each	1.00	144779.25	144779.25

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9	9	Supply, installation, testing & commissioning of Activated carbon filter of type - cylindrical with torispherical head, Diameter-1000mm, Straight Height-1500mm of 6mm thick shell & 8mm thick dish & 10mm thick bed plate, Media - active carbon, M.O.C.-MS at proposed site with 50NB MS fabricated frontal pipe line, CI-butterfly valve, all lead, lift, loading, unloading, transportation & all applicable taxes etc. complete as per direction of Railway's Engineer- in charge or his authorised representative at site.	Each	1.00	168909.12	168909.12
10	10	Supply, installation, testing & commissioning of automatic bacteriological treatment plant incorporated for with water flow sensor & proportional dosing controller with all lead, lift, loading, unloading, transportation & all applicable taxes etc as per direction of Railway's Engineer- in charge or his authorised representative at site.	Each	1.00	144779.25	144779.25
11	11	Supply of interconnecting piping & valves of type of pipes- MS-ERW class-B/PVC, type of valves-CI/PP, with Jindal/Tata/Bansal or equivalent make pipe and Audeo/Kitz/Leader or equivalent make valves at proposed site with all lead, lift, loading, unloading, transportation and all applicable taxes etc. complete as per direction of Railway's Engineer- in charge or his authorised representative at site.	Job	1.00	168909.12	168909.12
12	12	Operation & maintainance of water recycling plant at Chakradharpur/Tatanagar with contractor's staff (Like chemist, operator, safaiwala etc.) including maintenance of electrical & mechanical equipment testing of water sample complete as per instructions of Engineer-in-charge. Note: (a) Agency has to provide mobile no. of his men to the railway administration. (b) If his men not found present , then penalty of Rs. 2000/- per day will be imposed. (c) Payment of men deployed by the contractor for this work must have individual bank account in their own name. The payment to the men by the contractor shall be done through bank accounts of individual labour only as per latest minimum wages issued from Chief labour commissioner (C) and not in cash (d) SSE(Works) will ensure that men engaged for his work are having his individual bank account pass book. (e) The contractor while submitting the on account/ final bill for particular month shall enclosed the photocopy of the bank statement showing that payment has been made directly to the bank account of the men in the previous month. The payment of the contractor will not be related on failure to submit the bank statement for each and ever man. (f) Original bank Pass book of men has to be produced by the contractor during inspection.	Year	1.00	241298.74	241298.74
13	13	Supply of ferric alum.	Kg	35000.00	7.42	259700.00
14	14	Supply of Liquid chlorine (Sodium hypochloride) with concerntration PPM.	Kg	35000.00	12.37	432950.00

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15	15	Supplying & instalation of FRP underground water storage tank having 50000 litres capacity each & its related accessories of approved company as per direction of Rly's Engineerin-charge or his authorized represantative at site. The installation will be done as per manufacture's guide line, superviosion & direction and as per direction of Rly's Engineer -in-charge or his authorized represantative at site . The rate including materials & Labour, lead, lift, loading , unloading, transportation & carrying to site of work.	Each	1.00	361948.12	361948.12
16	16	Supply of Air Blowers of type-Twin Lobe roots blower, capacity-175 Cum/Hr, 4.0 MWC, power + - 7.5 HP (Tentative) makekay, Usha, Subhas or equivalent, M.O.C. casing CI, Lobe-CI at proposed side with all standard accessories including 3 phase, 415 V, 50HZ, AC motor of kirlosker / ABB / Siemens / BB / or equivalent make common base frame , suction & dischargesileneer , NRV V-belt, driven & drive pulley with all lead, lift, loading, unloading, transportation and all applicable taxes etc. complete as per direction of Railway's Engineer- in charge or his authorised representative at site.	Each	1.00	84454.55	84454.55
17	17	Supply of stater panel of type Non compartmentalized, single door, front open, non draw out with feeders as per approved drawing draing, make-Royco, Electromech or equivalent at proposed site with all lead lift, loading, unloading, transportation and all applicable taxes etc. complete as per direction of Railway's Engineer- in charge or his authorised representative at site.	Each	1.00	120649.37	120649.37
18	18	Supply, installation, testing & commissioning of Sluge pumps of type-Horizontal centrifugal, capacity-10 cum/Hr.,Head-10MWC, power-1 HP, Make-Kirloskar, CNP, Grundfos or equivalent, M.O.C. cashing-CI, impeller CI at proposed site with 3 phase, 415 V, 50HZ, AC motor of Kirlosker/ABB/Siemens/BB or equivalent make with all lead, lift, loading, unloading, transportation and all applicable taxes etc. complete as per direction of Railway's Engineer- in charge or his authorised representative at site.	Each	1.00	36194.81	36194.81
19	19	Supply, installation, testing & commissioning of Filter feed pumps of type monoblock centrifugal, capacity-12.5 cum/Hr.,Head-25MWC, power-3 HP, Make-Kirloskar, CNP or equivalent, MOC impeller-CI, casing CI, at proposed site with 3 phase, 415 V, 50HZ, AC motor of Kirlosker/ABB/Siemens/BB or equivalent make with all lead, lift, loading, unloading, transportation and all applicable taxes etc. complete as per direction of Railway's Engineer- in charge or his authorised representative at site.	Each	1.00	36194.81	36194.81

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20	20	Supply, installation, testing & commissioning of Raw Effluent transfer pumps of type Horizontal centrifugal, capacity-15 cum/Hr.,Head15MWC, power-3 HP, Make Kirloskar, CNP, M & P or equivalent, MOC impellerCI, casing CI, at proposed site with 3 phase, 415V, 50 HZ ,AC motor of Kirlosker/ABB/Siemens/BB or equivalent make MS fabricated base frame, coupling, nuts, bolts & washers etc at proposed site with all lead, lift, loading, unloading, transportation and all applicable taxes etc. complete as per direction of Railway's Engineer- in charge or his authorized representative at site.	Each	1.00	36194.81	36194.81
21	21	Supply, installation, testing & commissioning of Raw Effluent transfer pumps of type Horizontal centrifugal, capacity-15 cum/Hr.,Head15MWC, power-3 HP, Make Kirloskar, CNP, M & P or equivalent, MOC impellerCI, casing CI, at proposed site with 3 phase, 415V, 50 HZ ,AC motor of Kirlosker/ABB/Siemens/BB or equivalent make MS fabricated base frame, coupling, nuts, bolts & washers etc at proposed site with all lead, lift, loading, unloading, transportation and all applicable taxes etc. complete as per direction of Railway's Engineer- in charge or his authorised representative at site.	Each	1.00	36194.81	36194.81
22	22	Supply, installation, testing & commissioning of Filter water transfer pumps of type monoblock centrifugal, capacity-12.5 cum/Hr.,Head25MWC, power-3 HP, Make Kirloskar, CNP or equivalent, M.O.C. impeller-CI, casing CI, at proposed site with 3 phase, 415 V, 50HZ, AC motor of Kirlosker/ABB/Siemens/BB or equivalent make with all lead, lift, loading, unloading, transportation and all applicable taxes etc. complete as per direction of Railway's Engineer- in charge or his authorized representative at site.	Job	1.00	72389.62	72389.62
23	23	Design & drawing of ERW plant.	Each	1.00	123742.94	123742.94
24	24	Supply and installation including transporting of pre-fabricated SMC panel over head water tank of 50000 litres capacity of SINTEX Make or Devi Polymer's FLOSTO Make. (Ref.- DV of A.L. No.SER/CONORGN/HQ/TENDER/4089/4389, Dated: -15.07.20219)	Each	0.90	880977.08	792879.37
25	25	Supply and fixing in position of steam cured prestressed concrete of grade M-30 or richer mix (Pretensioned with 8 nos 4mm HTS wire) pillar of cross section 0.175m x 0.175m (7" x 7") & both edges groove of 5cm x 5cm (2"x2") for holding precast slabs with provision for 3 holes at top. The rate is inclusive of Contractor's all labour, materials including cement and HTS wire, tools & plants, lead, lift, loading, unloading, transportation, sales tax etc. complete as per approved drawing of railway. (A/L No. CKP/DIVN/ENGG/CKP/WEST/20-21-07/00903060030232 dt. 30.12.2020.	RM	50850.00	461.52	23468292.00

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26	26	Supply and fixing of steam cured prestressed concrete of grade M-30 or richer mix (Pretensioned with 3 nos, 4mm HTS wire) slab of size 2.40m x 0.3m x 0.05m (8'x 1'x 2") with provision for hole (if required) for fixing of angle at the top & fixing the same at proper position in between the two pillars. The rate is inclusive of Contractor's all labour, materials including cement and HTS wire, tools & plants, lead, lift, loading, unloading, transportation, sales tax etc. complete as per approved drawing of railway. (A/L No. CKP/DIVN/ENGG /CKP/WEST/20-21-07/00903060030232 dt. 30.12.2020.	Each	127980.00	490.13	62726837.40
27	27	"Supplying, erecting and fixing precast concrete reinforced bench with back rest. Bench shall consist of 2 nos. L shaped base support in natural cement colour of thickness 100 mm, back height 1000 mm, front height 450 mm, base width 620 mm and 5 nos. reinforced concrete planks in red colour and size of 1500 x 100 x 50mm and 1 no. reinforced concrete plank of 150 x 200 x 50mm; manufactured by using M-30 grade concrete & reinforced suitably; all parts to be joined with galvanised nuts and bolts of suitable size. All bolts to be sealed after assembly. Complete job to be done as per directions of Engineer Incharge. This NS rate is based on USSOR-2010 item no. 172020 vide LOA no.-10174550021169 dtd. 29.06.2020 with a GST impact of 5.35%."	Each	240.00	12294.66	2950718.40
					Total	97991033.65

4. ELIGIBILITY CONDITIONS

Important : All documents uploaded and remarks / confirmation entered by the bidders against any eligibility condition shall be opened as part of technical bid only

Standard Financial Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Financial Eligibility Criteria: The tenderer must have minimum average annual contractual turnover of V/N or V whichever is less, where V= Advertised value of the tender in crores of Rupees, N= Number of years prescribed for completion of work for which bids have been invited. The average annual contractual turnover shall be calculated as an average of "total contractual payments" in the previous three financial years, as per the audited balance sheet. However, in case balance sheet of the previous year is yet to be prepared/ audited, the audited balance sheet of the fourth previous year shall be considered for calculating average annual contractual turnover. The tenderers shall submit requisite information as per Annexure -VI B, along with copies of Audited Balance Sheets duly certified by the Chartered Accountant/Certificate from Chartered Accountant duly supported by Audited Balance Sheet. Format of Annexure VI B is attached with document tab for reference.	No	No	Allowed (Mandatory)
1.1	Date of inviting tender shall be the date of publishing tender notice on IREPS website if tender is published on website or the date of publication in newspaper in case tender is not published on website.	No	No	Not Allowed

Standard Technical Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
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1	<p>(a)The tenderer must have successfully completed orsubstantially completed any one of the following categories of work(s)during last 07 years,ending last day of month previous to the one in which tender is invited:iThree similar works each costing not less than the amount equal to 30% of advertised value of the tender,oriiTwo similar works each costing not less than the amount equal to 40% of advertised value of the tender,oriiiOne similar work costing not less than the amount equal to 60% of advertised value of the tender.b(1)In case of tenders for composite works(e.g.works involving more than one distinct component,suchasCivil Engineering works,S&T works,Electrical works,OHE works etc.and in the case of major bridges-substructure,superstructure etc),tenderer must have successfully completed or substantially completed any one of the following categories of work(s)during last07(seven)years,ending last day of month previous to the one in which tender is invited:(i)Three similar works each costing not less than the amount equal to 30% of advertised value of each component of tender,or(ii)Two similar works each costing not less than the amount equal to 40% of advertised value of each component of tender,or(iii)One similar work each costing not less than the amount equal to60% of advertised value of each component of tender.Note for b(1):Separate completed works of minimum required values shall also be considered for fulfillment of technical eligibility criteria for different components.(b)(2) In such cases,what constitutes a component in a composite work shall be clearly pre-defined with estimated tender cost of it, as part of the tender documents without any ambiguity.(b)(3)To evaluate the technical eligibility of tenderer,onlycomponents of work as stipulated in tender documents for evaluation of technical eligibility,shall be considered.The scope of work covered in other remaining components shall be either executed by tenderer himself if he has work experience as mentioned in clause7of the Standard General Conditions of Contractor through subcontractor fulfilling the requirements as per clause7of the Standard General Conditions of Contract or jointly i.e,partly himself and remaining through subcontractor, with prior approval of Chief Engineer in writing. However,if required in tender documents by way of Special Conditions, a formal agreement duly notarised,legally enforceable in the court of law, shall be executed by the main contractor with the subcontractor for the component(s) of work proposed to be executed by the subcontractor(s),and shall be submitted along with the offer for considering subletting of that scope of work towards fulfillment of technical eligibility.Such subcontractor must fulfill technical eligibility criteria as follows:The subcontractor shall have successfully completed at least one work similar to work proposed for subcontract, costing not less than 35% value of work to be subletted, in last 5 years,ending last day of month previous to the one in which tender is invited through a works contract.Note:for subletting of work costing up to Rs 50lakh,no previous work experience of subcontractor shall be asked for by the Railway.In case after award of contract or during execution of work it becomes necessary for contractor to change subcontractor,the same shall be done with subcontractor(s)fulfilling the requirements as per clause7oftheRSGCC,with prior approval of Chief Engineer in writing.</p>	No	No	Allowed (Mandatory)
1.1	<p>Work experience certificate from private individual shall not be considered. However, in addition to work experience certificates issued by any Govt. Organisation, work experience certificate issued by Public listed company having average annual turnover of Rs 500 crore and above in last 3 financial years excluding the current financial year, listed on National Stock Exchange or Bombay Stock Exchange, incorporated/registered at least 5 years prior to the date of closing of tender, shall also be considered provided the work experience certificate has been issued by a person authorized by the Public listed company to issue such certificates. In case tenderer submits work experience certificate issued by public listed company, the tenderer shall also submit along with work experience certificate, the relevant copy of work order, bill of quantities, bill wise details of payment received duly certified by Chartered Accountant, TDS certificates for all payments received and copy of final/last bill paid by company in support of above work experience certificate.</p>	No	No	Not Allowed

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1.2	<p>Explanation for Eligibility Criteria- 1. Substantially Completed Work means an ongoing work in which payment equal to or more than 90% of the present contract value (excluding the payment made for adjustment of Price variation (PVC), if any) has been made to the contractor in that ongoing contract and no proceedings of termination of contract on Contractor's default has been initiated. The credential certificate in this regard should have been issued not prior to 60 days of date of invitation of present tender. 2. In case a work is started prior to 07 (seven) years, ending last day of month previous to the one in which tender is invited, but completed in last 07 (seven) years, ending last day of month previous to the one in which tender is invited, the completed work shall be considered for fulfillment of credentials. 3. If a work is physically completed and completion certificate to this extent is issued by the concerned organization but final bill is pending, such work shall be considered for fulfillment of credentials 4. In case of completed work, the value of final bill (gross amount) including the PVC amount (if paid) shall be considered as the completion cost of work. In case final bill is pending, only the total gross amount already paid including the PVC amount (if paid) shall be considered as the completion cost of work. In case of substantially completed work, the total gross amount already paid including the PVC amount (if paid), as mentioned in the certificate, shall be considered as the cost of substantially completed work. 5. If a bidder has successfully completed a work as subcontractor and the work experience certificate has been issued for such work to the subcontractor by a Govt. Organization or public listed company as defined in Note for Item 10.1 Para 10 of the Tender Form (Second Sheet) of GCC APRIL 2022, the same shall be considered for the purpose of fulfillment of credentials. 6. In case a work is considered similar in nature for fulfillment of technical credentials, the overall cost including the PVC amount (if paid) of that completed work or substantially completed work, shall be considered and no separate evaluation for each component of that work shall be made to decide eligibility. 7. In case of newly formed partnership firm, the credentials of individual partners from previous propriety firm(s) or dissolved previous partnership firm(s) or split previous partnership firm(s), shall be considered only to the extent of their share in previous entity on the date of dissolution / split and their share in newly formed partnership firm. For example, a partner A had 30% share in previous entity and his share in present partnership firm is 20%. In the present tender under consideration, the credentials of partner A will be considered to the extent of 0.3*0.2*value of the work done in the previous entity. For this purpose, the tenderer shall submit along with his bid all the relevant documents which include copy of previous partnership deed(s), dissolution deed(s) and proof of surrender of PAN No.(s) in case of dissolution of partnership firm(s) etc.</p>	No	No	Not Allowed
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1.3	8. In case of existing partnership firm, if any one or more partners quit the partnership firm, the credentials of remaining partnership firm shall be re-worked out i.e., the quitting partner(s) shall take away his credentials to the extent of his share on the date of quitting the partnership firm(e.g. in a partnership firm of partners A, B & C having share 30%, 30% & 40% respectively and credentials of Rs 10 crore; in case partner C quits the firm, the credentials of this partnership firm shall remain as Rs 6 crore). For this purpose, the tenderer shall submit along with his bid all the relevant documents which include copy of previous partnership deed(s), dissolution deed(s) and proof of surrender of PAN No.(s) in case of dissolution of partnership firm(s) etc.9. In case of existing partnership firm if any new partner(s) joins the firm without any modification in the name and PAN/TAN no. of the firm, the credentials of partnership firm shall get enhanced to the extent of credentials of newly added partner(s) on the same principles as mentioned in item 6 above. For this purpose, the tenderer shall submit along with his bid all the relevant documents which include copy of previous partnership deeds, dissolution/splitting deeds and proof of surrender of PAN No.(s) in case of dissolution of partnership firm etc. 10. Any partner in a partnership firm cannot use or claim his credentials in any other firm without leaving the partnership firm i.e., In a partnership firm of A&B partners, A or B partner cannot use credentials of partnership firm of A&B partners in any other partnership firm or propriety firm without leaving partnership firm of A&B partners. 11. In case a partner in a partnership firm is replaced due to succession as per succession law, the proportion of credentials of the previous partner will be passed on to the successor.12. If the percentage share among partners of a partnership firm is changed, but the partners remain the same, the credentials of the firm before such modification in the share will continue to be considered for the firm as it is without any change in their value. Further, in case a partner of partnership firm retires without taking away any credentials from the firm, the credentials of partnership firm shall remain the same as it is without any change in their value. 13. In a partnership firm "AB" of A&B partners, in case A also works as propriety firm "P" or partner in some other partnership firm "AX", credentials of A in propriety firm "P" or in other partnership firm "AX" earned after the date of becoming a partner of the firm AB shall not be added in partnership firm AB.14. In case a tenderer is LLP, the credentials of tenderer shall be worked out on above lines similar to a partnership firm. 15. In case company A is merged with company B, then company B would get the credentials of company A also.	No	No	Not Allowed
1.4	Date of inviting tender shall be the date of publishing tender notice on IREPS website if tender is published on website or the date of publication in newspaper in case tender is not published on website.	No	No	Not Allowed
1.5	Defination of Similar Work :- Any Civil Engineering works.	No	No	Not Allowed

Bidders shall confirm and certify on the behalf of the tenderer including its constituents as under:

S.No.	Description
1	I/we the tenderer (s) am/are signing this document after carefully reading the contents.
2	I/We the tenderer(s) also accept all the conditions of the tender and have signed all the pages in confirmation thereof.
3	I/we hereby declare that I/we have downloaded the tender documents from Indian Railway website www.ireps.gov.in . I/we have verified the content of the document from the website and there is no addition, no deletion or no alteration to the content of the tender document. In case of any discrepancy noticed at any stage i.e. evaluation of tenders, execution of work or final payment of the contract, the master copy available with the railway Administration shall be final and binding upon me/us.
4	I/we declare and certify that I/we have not made any misleading or false representation in the forms, statements and attachments in proof of the qualification requirements.
5	I/We also understand that my/our offer will be evaluated based on the documents/credentials submitted along with the offer and same shall be binding upon me/us.
6	I/We declare that the information and documents submitted along with the tender by me/us are correct and I/we are fully responsible for the correctness of the information and documents, submitted by us.
7	I/we certify that I/we the tenderer(s) is/are not blacklisted or debarred by Railways or any other Ministry / Department of Govt. of India from participation in tender on the date of submission of bids, either in individual capacity or as a HUF/ member of the partnership firm/LLP/JV/Society/Trust.
8	I/we understand that if the contents of the certificate submitted by us are found to be forged/false at any time during process for evaluation of tenders, it shall lead to forfeiture of the Bid Security and may also lead to any other action provided in the contract including banning of business for a period of upto two year. Further, I/we and all my/our constituents understand that my/our offer shall be summarily rejected.

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9	I/we also understand that if the contents of the certificate submitted by us are found to be false/forged at any time after the award of the contract, it will lead to termination of the contract, along with forfeiture of Bid Security/Security Deposit and Performance guarantee and may also lead to any other action provided in the contract including banning of business for a period of upto two year.
10	I/We have read the clause regarding restriction on procurement from a bidder of a country which shares a land border with India and certify that I am/We are not from such a country or, if from such a country, have been registered with the competent Authority. I/We hereby certify that I/we fulfil all the requirements in this regard and am/are eligible to be considered (evidence of valid registration by the competent authority is enclosed)

Partnership firm/Joint Venture (JV) / Hindu Undivided Family (HUF) / Limited Liability Partnership (LLP) etc.

S.No.	Description
1	Partnership firm/Joint Venture (JV) / Hindu Undivided Family (HUF) / Limited Liability Partnership (LLP) etc. Please submit a certificate in the prescribed format (please download the format from the link given below). Non submission of the certificate, or submission of certificate either not properly filled in, or in a format other than the prescribed format shall lead to summary rejection of your offer. (Click here to download the Format of Self Certification)

5. COMPLIANCE

Important : All documents uploaded and remarks / confirmation entered by the bidders against any compliance condition shall be opened as part of technical bid only.

Check Lst

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Following is the checklist for submission of documents while submitting the tender. :-	No	No	Not Allowed
1.1	(I) A certificate as per annexure - V(A) wherever applicable enclosed in document tab. (II) Fulfillment of Standard Technical and Financial Criteria as per tender documents wherever applicable as per Tender Documents.	No	No	Not Allowed
1.1.1	For Sole Proprietorship Firm: All documents in terms of Para 10 of the Tender Form (Second Sheet) of IR Standard GCC April 2022.	No	No	Not Allowed
1.2	For Partnership Firm	No	No	Not Allowed
1.2.1	The tenderer shall clearly specify that the tender is submitted on behalf of a partnership firm. The following documents shall be submitted by the partnership firm, with the tender: (i) A notarized copy of the Partnership Deed or a copy of the Partnership deed registered with the Registrar. (ii) A notarized or registered copy of Power of Attorney in favour of the individual to tender for the work, sign the agreement etc. and create liability against the firm. (iii) An undertaking by all partners of the partnership firm that they are not blacklisted or debarred by Railways or any other Ministry / Department of the Govt. of India from participation in tenders / contracts as on the date of submission of bids, either in their individual capacity or in any firm/LLP in which they were / are partners/members. Any Concealment / wrong information in regard to above shall make the bid ineligible or the contract shall be determined under Clause 62 of the Standard General Conditions of Contract. (iv) All other documents in terms of Para 10 of the Tender Form (Second Sheet) of IR Standard GCC April 2022	No	No	Not Allowed
1.3	For Company registered under Companies Act-2013	No	No	Not Allowed
1.3.1	Following documents shall be submitted by the tenderer: Company registered under Companies Act 2013: (i) The copies of MOA (Memorandum of Association) / AOA (Articles of Association) of the company (ii) A copy of Certificate of Incorporation (iii) A copy of Authorization/Power of Attorney issued by the Company (backed by the resolution of Board of Directors) in favour of the individual to sign the tender on behalf of the company and create liability against the company. (iv) All other documents in terms of Para 10 of the Tender Form (Second Sheet) of IR Standard GCC April 2022.	No	No	Not Allowed
1.4	Joint Venture (JV): The tenderer shall submit documents as mentioned in Clause 17 of IR Standard GCC April 2022 (Wherever Applicable)	No	No	Not Allowed

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1.5	Following documents shall be submitted by the tenderer: Registered Society & Registered Trust: (i) A copy of Certificate of Registration (ii) A copy of Memorandum of Association of Society/Trust Deed (iii) A copy of Power of Attorney in favour of the individual to sign the tender documents and create liability against the Society/Trust. (iv) A copy of Rules & Regulations of the Society (v) All other documents in terms of Para 10 of the Tender Form (Second Sheet) of IR Standard GCC April 2022.	No	No	Not Allowed
1.5.1	Following documents shall be submitted by the tenderer: LLP (Limited Liability Partnership): (i) A copy of LLP Agreement (ii) A copy of Certificate of Incorporation (iii) A copy of Power of Attorney/Authorization issued by the LLP in favour of the individual to sign the tender on behalf of the LLP and create liability against the LLP. (iv) An undertaking by all partners of the LLP that they are not blacklisted or debarred by Railways or any other Ministry / Department of the Govt. of India from participation in tenders / contracts as on the date of submission of bids, either in their individual capacity or in any firm/LLP or JV in which they were / are partners/members. Concealment / wrong information in regard to above shall make the contract liable for determination under Clause 62 of the Standard General Conditions of Contract. (v) All other documents in terms of Para 10 of the Tender Form (Second Sheet) of IR Standard GCC April 2022.	No	No	Not Allowed
1.5.2	Following documents shall be submitted by the tenderer: HUF: (i) A copy of notarized affidavit on Stamp Paper declaring that he who is submitting the tender on behalf of HUF is in the position of 'Karta' of Hindu Undivided Family (HUF) and he has the authority, power and consent given by other members to act on behalf of HUF. (ii) All other documents in terms of Para 10 of the Tender Form (Second Sheet) of IR Standard GCC April 2022.	No	No	Not Allowed
1.6	Declaration regarding Retd Railway Employee as per Para 16 (a), (b) & (c) of IR Standard GCC April 2022.	No	No	Not Allowed
1.6.1	The tenderer shall clearly specify whether the tender is submitted on his own (Proprietary Firm) or on behalf of a Partnership Firm / Company / Joint Venture (JV) / Registered Society /Registered Trust / Hindu Undivided Family (HUF) / Limited Liability Partnership (LLP) etc. The tenderer(s) shall enclose the attested copies of the constitution of their concern, and copy of PAN Card along with their tender. Tender Documents in such cases are to be signed by such persons as may be legally competent to sign them on behalf of the firm, company, association, trust or society, as the case may be.	No	No	Not Allowed
2	The Bid Security shall be deposited either in cash through e-payment gateway or submitted as Bank Guarantee bond from a scheduled commercial bank of India or as mentioned in tender documents. The Bank Guarantee bond shall be as per Annexure VIA and shall be valid for a period of 90days beyond the bid validity period.NOTE- Bank Guarantee for Bid Security shall be Acting Through CPM GS CKP and Beneficiary shall be FA & CAO/S.E.Rly/Garden Reach/ Kolkata.	No	No	Not Allowed
3	Bid Capacity: Bid Capacity detailed as per Annexure-VI wherever applicable as per tender documents	No	No	Not Allowed

Commercial-Compliance

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Please enter the percentage of local content in the material being offered. Please enter 0 for fully imported items, and 100 for fully indigenous items. The definition and calculation of local content shall be in accordance with the Make in India policy as incorporated in the tender conditions.	No	Yes	Allowed (Optional)
2	The Contractor will fill up and update the details of Contracts, Contractual Labour employed by him/her and related details as required by Railway on "Contract Labour Management Portal" or any other portal or in Register - as Directed by Engineer-in-Charge for which no extra payments shall be made.	Yes	Yes	Allowed (Optional)

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3	Letter of Credit as Mode of Payment in Works Tender or Service Tender has been introduced as per Rly Board's letter no. 2018/CE-I/CT/9, New Delhi, dtd: 04.06.2018 (Documents are attached in uploaded section named as Conditions for LC Credit)). Tenderers are advised to see the uploaded section carefully for availing LC Credit at the time of bidding in IREPS Portal.	Yes	Yes	Allowed (Optional)
4	Retd. employ :- declaration regarding employment/ partnership etc. of retired railway employees. as per Clause 16 of IRSGCC APRIL 2022. Format is attached in document tab.	Yes	No	Allowed (Mandatory)
5	The Bid Security shall be deposited either in cash through e-payment gateway or submitted as Bank Guarantee bond from a scheduled commercial bank of India or as mentioned in tender documents. The Bank Guarantee bond shall be as per Annexure VI A and shall be valid for a period of 90 days beyond the bid validity period. The tenderer are advised to upload the Bid Security in case of BG as per Annex VI A for BID SECURITY uploaded in document Tab. Also,the original Bank Guarantee should be delivered in person to the official nominated as indicated in the tender document within 5 working days before closing date for submission of bids (i.e. excluding the last date of submission of bids).Non submission of scanned copy of Bank Guarantee with the bid on e-tendering portal(IREPS) and/or non submission of original Bank Guarantee within the specified period shall lead to summary rejection of bid. NOTE- Bank Guarantee for Bid Security shall be Acting Through CPM GS CKP and Beneficiary shall be FA & CAO/S.E.Rly/Garden Reach/Kolkata.	Yes	Yes	Allowed (Mandatory)
6	Please enter the percentage of local content in the material being offered. Please enter 0 for fully imported items, and 100 for fully indigenous items. The definition and calculation of local content shall be in accordance with the Make in India policy as incorporated in the tender conditions.	No	Yes	Allowed (Optional)

General Instructions

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	The rates to be quoted are inclusive of GST and all other charges and taxes levied by the state as well as Central Govt. from time to time	No	No	Not Allowed
2	Multiple L-1 :- In case of more than one L-1 bidders, tender may be awarded to tenderer having higher Bid Capacity. In case Bid Capacity is also the same, tenderer having done more value of similar work in last three previous financial years and the current financial year upto the date of opening of the tender, may be selected for the award. Instructions with respect to Bid Capacity will follow. (Railway Board Letter No.2017/Trans/01/Policy New Delhi, dated. 08.02.2018)	No	No	Not Allowed
3	Clause 55-B to GCC: Provisions of Employees Provident Fund and Miscellaneous Provisions Act, 1952:The Contractor shall comply with the provisions of Para 30 & 36-B of the Employees Provident Fund Scheme, 1952; Para 3 & 4 of Employees' Pension Scheme, 1995; and Para 7 & 8 of Employees Deposit Linked Insurance Scheme, 1976; as modified from time to time through enactment of "Employees Provident Fund & Miscellaneous Provisions Act, 1952", wherever applicable and shall also indemnify the Railway from and against any claims under the aforesaid Act and the Rules.	No	No	Not Allowed
4	EPF and ESI registration would be mandatory wherever applicable and documents towards EPF and ESI registration shall be submitted before execution of the agreement failing which contract will be terminated. The labours deployed by the contractor for the entire work should have individual Bank account in their own name. The payment to the labour by the contractor should as far as possible be made through bank accounts of the individual labour as per the latest minimum wages issued from Chief labour commissioner (C).	No	No	Not Allowed
5	No Technical and Financial credentials are required for tenders having advertised value up to Rs 50 lakh.	No	No	Not Allowed

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6	The tenderer are advised to read all the conditions mentioned in the tender document as well as uploaded documents carefully before submitting the bids.	No	No	Not Allowed
7	Credentials if submitted in foreign currency shall be converted into Indian currency i.e., Indian Rupee as under: The conversion rate of US Dollars into Rupees shall be the daily representative exchange rates published by the Reserve Bank of India or entity authorized by RBI to do so for the relevant date or immediately previous date for which rates have been published. Where, relevant date shall be as on the last day of month previous to the one in which tender is invited. In case of any other currency, the same shall first be converted to US Dollars as on the last day of month previous to the one in which tender is invited, and the amount so derived in US Dollars shall be converted into Rupees at the aforesaid rate. The conversion rate of such currencies shall be the daily representative exchange rates published by the International Monetary Fund for the relevant date or immediately previous date for which rates have been published.	No	No	Not Allowed
8	The Bid Security shall be rounded off to the nearest 100. This Bid Security shall be applicable for all modes of tendering. (ii) Any firm recognized by Department of Industrial Policy and Promotion (DIPP) as 'Startups' shall be exempted from payment of Bid Security detailed above. (iii) Labour Cooperative Societies shall submit only 50% of above Bid Security detailed above.	No	No	Not Allowed
9	e-Tender Forms shall be issued free of cost to all tenderers.	No	No	Not Allowed
10	Clarification of Bids: To assist in the examination, evaluation & comparison and prequalification of the Tender, the Railway may, at its discretion, ask any Bidder for a clarification of its Bid. Any clarification submitted by a Bidder that is not in response to a request by the Railway shall not be entertained or considered. The Railway request for clarification and the response of the bidder in this regard shall be in writing. However, if a Bidder does not provide clarification of its bid by the date and time communicated in the Railway request for clarification, the bid shall be evaluated as per the documents submitted along with the bid.	No	No	Not Allowed
11	In case, submission of Bid Security in the form of Bank Guarantee, following shall be ensured:i. A scanned copy of the Bank Guarantee shall be uploaded on e-Procurement Portal (IREPS) while applying to the tender.ii. The original Bank Guarantee should be delivered in person to the official nominated as indicated in the tender document within 5 working days before closing date for submission of bids(i.e excluding the last date of submission of bids).iii. Non submission of scanned copy of Bank Guarantee with the bid on e-tendering portal(IREPS) and/or non submission of original Bank Guarantee within the specified period shall lead to summary rejection of bid. iv. The Tender Security shall remain valid for a period of 90 days beyond the validity period for the Tender.v. The details of the BG, physically submitted should match with the details available in the scanned copy and the data entered during bid submission time, failing which the bid will be rejected vi. The Bank Guarantee shall be placed in an envelope, which shall be sealed. The envelope shall clearly bear the identification "Bid for the ***** Project" and shall clearly indicate the name and address of the Bidder. In addition, the Bid Due Date should be indicated on the right hand top corner of the envelope. vii. The envelope shall be addressed to the officer and address as mentioned in the tender document. viii. If the envelope is not sealed and marked as instructed above, the Railway assumes no responsibility for the misplacement or premature opening of the contents of the Bid submitted and consequent losses, if any, suffered by the Bidder.	No	No	Not Allowed

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12	Bid Security: The tenderer shall be required to submit the Bid Security with the tender for the due performance with the stipulation to keep the offer open till such date as specified in the tender, under the conditions of tender. The Bid Security shall be as under: Value of the Work Bid Security (I) For works estimated to cost up to 1 crore- 2% of the estimated cost of Value of the Work (II) For works estimated to cost more than 1 crore- 2 lakh plus ½% (half percent) of the excess of the estimated cost of work beyond 1 crore subject to a maximum of 1 crore Note: (i) The Bid Security shall be rounded off to the nearest 100. This Bid Security shall be applicable for all modes of tendering. (ii) Any firm recognized by Department of Industrial Policy and Promotion (DIPP) as 'Startups' shall be exempted from payment of Bid Security detailed above. (iii) Labour Cooperative Societies shall submit only 50% of above Bid Security detailed above. (b) It shall be understood that the tender documents have been issued to the tenderer and the tenderer is permitted to tender in consideration of stipulation on his part, that after submitting his tender he will not resile from his offer or modify the terms and conditions thereof in a manner not acceptable to the Engineer. Should the tenderer fail to observe or comply with the said stipulation, the aforesaid amount shall be liable to be forfeited to the Railway. (c) If his tender is accepted, this Bid Security mentioned in sub para (a) above will be retained as part security for the due and faithful fulfillment of the contract in terms of Clause 16 of the Standard General Conditions of Contract. The Bid Security of other Tenderers shall, save as herein before provided, be returned to them, but the Railway shall not be responsible for any loss or depreciation that may happen thereto while in their possession, nor be liable to pay interest thereon.	No	No	Not Allowed
13	JV Firms are allowed to participate in the instant tender. However, they should read the conditions mentioned in the Guidelines for JV Participation uploaded in document tab before participating in bid.	No	No	Not Allowed

Special Conditions

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	The definition of similar nature of work for Sch-C,D & E is "Supply installation testing & commissioning of track circuit/ LVCD/ LC gate interlocking/ electromechanical Rehabilitation/any signalling work involving PI/RR1/(EI/SSI) & Outdoor work involving 4/6 Quad cable & OFC outdoor work/OFC outdoor work". However this definition will not be used to evaluate the tender. For these S&T works (Sch-C,D & E) for fencing Clause no (b) (3) of 10.1 Technical Eligibility criteria Part 1 of GCC 2022 to be used.	No	No	Not Allowed
2	Telecom Circular No. 09/2023 shall be applicable as per Rly Board's letter no. 2021/Tele/5 (2)/3-Part (1)(3425647), dtd: 12.06.2023 for procedure for undertaking digging work in the vicinity of signalling, Electrical and Telecommunication Cable.	No	No	Not Allowed
3	The schedule of quantity is only approximate and may vary as per site condition. Any new items of SER - USSOR -2021 & CPWD - DSR 2021, S & T (Item Directory -S&T SOR 2022-Ver-1) may be added as per approval of the Competent Authority.	No	No	Not Allowed
4	(I) Indian Railways Standard General Conditions of Contract April - 2022 updated with correction slips Issued up to date of inviting tender will be applicable. (II)IR Specifications/Guidelines/CE's Circulars/Rly Board's Guidelines updated with correction slips issued up to date of inviting tender will be applicable. (III) Relevant B.I.S. Codes updated with correction slips issued up to date of inviting tender will be applicable	No	No	Not Allowed
5	If necessary , the contractor has to make the detail drawing of the work and has to be made it approved by a Govt. College /University/Institution. No extra payment will be applicable on this account.	No	No	Not Allowed

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5.1	(I) Contractor has to set up site office at each station on Railway premises having suitable facilities including office room with desktop computer and printing facility. (II) formwork for all types of RCC works shall be made only with MS shuttering plates and MS pipe staging. (III) If required ,contractor should mobilise to do night working of which they will be required to have their own sufficient lighting arrangement. No extra payment will be admissible on this account. (IV) The Contractor with the help of his engineer or Diploma holder, as the case be, shall make necessary Drawings, sketches, plotting, peg markings etc. as desired by the Engineer-in-charge. No extra cost shall be claimed on this account.	No	No	Not Allowed
6	For all contracts costing more than Rs.5 Crore Contractor's e-MB is mandatory. (Authority - Rly. Bd.'s letter No.2017/CE-I/CT/9, dtd.31.05.2023)	No	No	Not Allowed
7	During execution of work by the contractor, if any derailment occurs on the work site due to negligence by the Agency, then contract will be terminated with forfeiture of Security Deposit & Performance Guarantee.	No	No	Not Allowed
8	On IREPS Module, a facility has already been created for online submission of Annexure-V. Therefore, the provision of downloading of Annexure-V of GCC & uploading of physically signed Annexure-V by the tenderer had been discontinued on IREPS. (Rly. Bd.'s letter No.2022/CE-I/CT/GCC Correspondence, dtd.14.05.2024)	No	No	Not Allowed
9	Care in Submission of Tenders: (a) (i) Before submitting a tender, the tenderer will be deemed to have satisfied himself by actual inspection of the site and locality of the works, that all conditions liable to be encountered during the execution of the works are taken into account and that the rates he enters in the tender forms are adequate and all inclusive to accord with the provisions in Clause-37 of the Standard General Conditions of Contract for the completion of works to the entire satisfaction of the Engineer. (a)(ii) Tenderers will examine the various provisions of The Central Goods and Services Tax Act, 2017(CGST)/ Integrated Goods and Services Tax Act, 2017(IGST)/ Union Territory Goods and Services Tax Act, 2017(UTGST)/ respective state's State Goods and Services Tax Act (SGST) also, as notified by Central/State Govt.& as amended from time to time and applicable taxes before bidding. Tenderers will ensure that full benefit of Input Tax Credit (ITC) likely to be availed by them is duly considered while quoting rates. (a)(iii) The successful tenderer who is liable to be registered under CGST/IGST/UTGST/SGST Act shall submit GSTIN along with other details required under CGST/IGST/UTGST/SGST Act to railway immediately after the award of contract, without which no payment shall be released to the Contractor. The Contractor shall be responsible for deposition of applicable GST to the concerned authority.(a)(iv) In case the successful tenderer is not liable to be registered under CGST/IGST/UTGST/ SGST Act, the railway shall deduct the applicable GST from his/their bills under reverse charge mechanism (RCM) and deposit the same to the concerned authority.(b) When work is tendered for by a firm or company, the tender shall be signed by the individual legally authorized to enter into commitments on their behalf. (c) The Railway will not be bound by any power of attorney granted by the tenderer or by changes in the composition of the firm made subsequent to the execution of the contract. It may, however, recognize such power of attorney and changes after obtaining proper legal advice, the cost of which will be chargeable to the Contractor.	No	No	Not Allowed
10	The quantities specified in the tender schedule are only approximate and liable to vary	No	No	Not Allowed

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11	<p>(I) For the practice of verification of tenderer's documents by the Railways may be dispensed with :- The Railway reserves the right to verify all statements, information and documents submitted by the bidder in his tender offer, and the bidder shall, when so required by the Railway, make available all such information, evidence and documents as may be necessary for such verification. Any such verification or lack of such verification, by the Railway shall not relieve the bidder of its obligations or liabilities hereunder nor will it affect any rights of the Railway there under. (II) In case of any information submitted by tenderer is found to be false, forged or incorrect at any time during process for evaluation of tenders, it shall lead to forfeiture of the tender Bid Security besides banning of business for a period of upto two years. (III) In case of any information submitted by tenderer is found to be false, forged or incorrect after the award of contract, the contract shall be terminated. Bid Security, Performance Guarantee and Security Deposit available with the railway shall be forfeited. In addition, other dues of the contractor, if any, under this contract shall be forfeited and agency shall be banned for doing business for a period of upto two years. IV) With such a system of self-certification of credentials, tender finalization should also be speeded up. The Tenderer(s) shall keep the offer open for a minimum period of 60 days (in case of two packet system of tendering 90 days) from the date of closing of the Tender</p>	No	No	Not Allowed
12	<p>In order to ensure prompt and proper uploading of details related to LOAs, engaged workmen, wage & other payment details, Railways/Pus etc. shall introduce a special condition in their tender documents of the tenders to be called henceforth (Authority-As per Rly. Bd.'s letter No.2018/CE-I/CT/4, dtd.17.10.2018). The special condition is as under :- 1) Contractor is to abide by the provisions of Payment of Wages act & Minimum Wages act in terms of Clause 54 and 55 of Indian Railways General Condition of Contract. In order to ensure the same, an application has been developed and hosted on website 'www.shramikkalyan.indianrailways.gov.in'. Contractor shall register his firm/company etc. and upload requisite details of labour and their payment in this portal. These details shall be available in public domain. The Registration/updation of Portal shall be done as under: (a)Contractor shall apply for onetime registration of his company/firm etc. in the Shramikkalyan portal with requisite details subsequent to issue of Letter of Acceptance. Engineer shall approve the contractor's registration on the portal within 7 days of receipt of such request. (b)Contractor once approved by any Engineer, can create password with login ID (PAN No.) for subsequent use of portal for all LoAs issued in his favour. (c)The contractor once registered on the portal, shall provide details of his Letter of Acceptance (LoA)/Contract Agreement on shramikkalyan portal within 15 days of issue of any LoA for approval of concerned Engineer. Engineer shall update (if required) and approve the details of LoA filled by contractor within 7 days of receipt of such request. (d) After approved of LoA by Engineer, contractor shall fill the salient details of contract labours engaged in the contract and ensure updating of each wage payment to them on shramikkalyan portal on monthly basis. (e)It shall be mandatory upon the contractor to ensure correct and prompt uploading of all salient details of engaged contractual labour & payments made thereof after each wage period. 2) While processing payment of any 'On Account Bill' or 'Final bill' or release of 'Advance' or 'Performance Guarantee/Security deposit', contractor shall submit a certificate to the Engineer or Engineer's representatives that " I have uploaded the correct details of contract labours engaged in connection with this contract and payments made to them during the wage period in Railway's Shramikkalyan portal at 'www.shramikkalyan.indianrailways.gov.in' till Month Year.</p>	No	No	Not Allowed

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13	Clause 55 D to GCC -Provision of The Building and Other Construction Workers (Regulations of Employment and Conditions of Services) ACT 1996 and The Building and Other Constructions Workers Welfare Cess ACT 1996. The tenderers, for carrying out any construction work, shall get themselves registered with the Registering Officer under Section-7 of the Building and Other Construction Workers Act, 1996 and rules made thereto by the concerned State Govt., and submit certificate of Registration issued from the Registering Officer of the concerned State Govt. (Labour Dept.). The Cess shall be deducted from the Contractor's bill as per Provision of the ACT.	No	No	Not Allowed
14	Doc. condition :- Condition mentioned in the all uploaded documents are applicable and binding in this contract.	No	No	Not Allowed
15	Right of Railway to Deal with Tenders: The Railway reserves the right of not to invite tenders for any of Railway work or works or to invite open or limited tenders and when tenders are called to accept a tender in whole or in part or reject any tender or all tenders without assigning reasons for any such action. In case if tender is accepted in part by Railway administration, Letter of Acceptance shall be issued as counter offer to the Tenderer, which shall be subject to acceptance by the Tenderer.	No	No	Not Allowed
16	Permission to Bid for a bidder from a country which shares Land boundary with India: Any bidder from the countries sharing a land border with India will be eligible to bid in any procurement of works (including turnkey projects) only if the bidder is registered with the Competent Authority. The Competent Authority for registration will be the Registration Committee constituted by the Department for Promotion of Industry and Internal Trade (DPIIT), Government of India. For interpretation of this para, Department of Expenditure, Ministry of Finance, Government of India letter F.No.6/18/2019-PPD dated 23/07/2020 shall be referred.	No	No	Not Allowed
17	Price Variation Clause (PVC) shall be applicable only in tender having advertised value above Rs. 2 Crores.	No	No	Not Allowed
18	(I) Rights of the Railway to deal with Tender: The authority for the acceptance of the tender will rest with the Railway. It shall not be obligatory on the said authority to accept the lowest tender or any other tender, and tenderer(s) shall neither demand any explanation for the cause of rejection of his/ their tender nor the Railway to assign reasons for declining to consider or reject any particular tender or tenders. (II) If the tenderer(s) deliberately gives / give wrong information in his / their tender or creates / create circumstances for the acceptance of his / their tender, the Railway reserves the right to reject such tender at any stage. (III) If any partner(s) of a partnership firm expires after the submission of its tender or after the acceptance of its tender, the Railway shall deem such tender as cancelled/contract as terminated under clause 61 of the Standard General Conditions of Contract, unless the firm retains its character as per partnership agreement. If a sole proprietor expires after the submission of tender or after the acceptance of tender, the Railway shall deem such tender as cancelled / contract as terminated under clause 61 of the Standard General Conditions of Contract.	No	No	Not Allowed

Technical-Compliances

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	For Partnership firm/Joint Venture (JV) / Hindu Undivided Family (HUF) / Limited Liability Partnership (LLP) etc. - The tenderer shall submit a certificate in the prescribed format (please download the format from the link given in Eligibility Tab also uploaded in Document Section). Non submission of the certificate, or submission of certificate either not properly filled in, or in a format other than the prescribed format shall lead to summary rejection of your offer. Bidder shall also confirm and certify on the behalf of the tenderer including its constituents from SL NO 1 to 10 of Eligibility Tab during Bid Process.	Yes	Yes	Allowed (Mandatory)

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2	<p>The tenderer shall clearly specify whether the tender is submitted on his own (Proprietary Firm) or on behalf of a Partnership Firm/Company/Joint Venture(JV)/Registered Society/ Registered Trust/Hindu Undivided Family(HUF)/Limited Liability Partnership (LLP) etc. The tenderer(s) shall enclose the attested copies of the constitution of their concern, and copy of PAN Card along with their tender. Tender Documents in such cases are to be signed by such persons as may be legally competent to sign them on behalf of the firm, company, association, trust or society, as the case may be - (ii) Following documents shall be submitted by the tenderer: (a) Sole Proprietorship Firm: (i) All documents in terms of Para 10 of the Tender Form (Second Sheet) of IRSGCC APRIL 2022. (b) HUF: (i) A copy of notarized affidavit on Stamp Paper declaring that he who is submitting the tender on behalf of HUF is in the position of 'Karta' of Hindu Undivided Family (HUF) and he has the authority, power and consent given by other members to act on behalf of HUF. (ii) All other documents in terms of Para 10 of the Tender Form (Second Sheet) of IRSGCC 2022. (c) Partnership Firm: (i) All documents as mentioned in para 18 of the Tender Form (Second Sheet) of IRSGCC APRIL 2022. (d) Joint Venture(JV): All documents as mentioned in para 17 of the Tender Form (Second Sheet) of IRSGCC APRIL 2022. (e) Company registered under Companies Act 2013: (i) The copies of MOA (Memorandum of Association)/AOA (Articles of Association) of the company (ii) A copy of Certificate of Incorporation (iii) A copy of Authorization/Power of Attorney issued by the Company (backed by the resolution of Board of Directors) in favour of the individual to sign the tender on behalf of the company and create liability against the company. (iv) All other documents in terms of Para 10 of the Tender Form (Second Sheet) of IRSGCC APRIL 2022. (f) LLP (Limited Liability Partnership): (i) A copy of LLP Agreement (ii) A copy of Certificate of Incorporation (iii) A copy of Power of Attorney/Authorization issued by the LLP in favour of the individual to sign the tender on behalf of the LLP and create liability against the LLP. (iv) An undertaking by all partners of the LLP that they are not blacklisted or debarred by Railways or any other Ministry / Department of the Govt. of India from participation in tenders / contracts as on the date of submission of bids, either in their individual capacity or in any firm/LLP or JV in which they were / are partners/members. Concealment / wrong information in regard to above shall make the contract liable for determination under Clause 62 of the Standard General Conditions of Contract. (v) All other documents in terms of Para 10 of the Tender Form (Second Sheet) of IRSGCC APRIL 2022. (g) Registered Society & Registered Trust: (i) A copy of Certificate of Registration (ii) A copy of Memorandum of Association of Society/Trust Deed (iii) A copy of Power of Attorney in favour of the individual to sign the tender documents and create liability against the Society/Trust. (iv) A copy of Rules & Regulations of the Society (v) All other documents in terms of Para 10 of the Tender Form (Second Sheet) of IRSGCC APRIL 2022</p>	Yes	Yes	Allowed (Mandatory)
2.1	<p>The tenderer shall clearly specify that the tender is submitted on behalf of a partnership firm. The following documents shall be submitted by the partnership firm, with the tender: (i) A notarized copy of the Partnership Deed or a copy of the Partnership deed registered with the Registrar. (ii) A notarized or registered copy of Power of Attorney in favour of the individual to tender for the work, sign the agreement etc. and create liability against the firm. (iii) An undertaking by all partners of the partnership firm that they are not blacklisted or debarred by Railways or any other Ministry / Department of the Govt. of India from participation in tenders / contracts as on the date of submission of bids, either in their individual capacity or in any firm/LLP in which they were / are partners/members. Any Concealment / wrong information in regard to above shall make the bid ineligible or the contract shall be determined under Clause 62 of the Standard General Conditions of Contract. (iv) All other documents in terms of Para 10 of the Tender Form (Second Sheet) of IRSGCC APRIL 2022.</p>	Yes	Yes	Allowed (Mandatory)
3	<p>The list of personnel/organization on hand and proposed to be engaged for the tendered work. Similarly list of Plant & Machinery available on hand and proposed to be inducted and hired for the tendered work.</p>	Yes	Yes	Allowed (Optional)

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4	<p>The tenderer whether sole proprietor / a company or a partnership firm /registered society / registered trust / HUF / LLP etc if they want to act through agent or individual partner(s), should submit along with the tender, a copy of power of attorney duly stamped and authenticated by a Notary Public or by Magistrate in favour of the specific person whether he/they be partner(s) of the firm or any other person, specifically authorizing him/them to sign the tender,submit the tender and further to deal with the Tender/ Contract up to the stage of signing the agreement except in case where such specific person is authorized for above purposes through a provision made in the partnership deed / Memorandum of Understanding / Article of Association /Board resolution, failing which tender shall be summarily rejected.A separate power of attorney duly stamped and authenticated by a Notary Public or by Magistrate in favour of the specific person whether he/they be partner(s) of the firm or any other person, shall be submitted after award of work, specifically authorizing him/them to deal with all other contractual activities subsequent to signing of agreement, if required. Note: A Power of Attorney executed and issued overseas, the document will also have to be legalized by the Indian Embassy and notarized in the jurisdiction where the Power of Attorney is being issued. However, the Power of Attorney provided by Bidders from countries that have signed the Hague Legislation Convention 1961 are not required to be legalized by the Indian Embassy if it carries a conforming Appostille Certificate. The tendere are advised to submit the same wherever applicable.</p>	Yes	Yes	Allowed (Mandatory)
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5	<p>Documents to be enclosed by the JV along with the tender(A)In case one or more of the members of the JV is/are partnership firms, following documents shall be submitted (i) A notarized copy of the Partnership Deed or a copy of the Partnership deed registered with the Registrar. (ii) A copy of consent of all the partners or individual authorized by partnership firm, to enter into the JV Agreement on a stamp paper (iii) A notarized or registered copy of POA in favour of the individual to sign the MOU/JV Agt. on behalf of the partnership firm and create liability against the firm. (iv) An undertaking by all partners of the partnership firm that they are not blacklisted or debarred by Railways or any other Ministry/Department of the Govt of India from participation in tenders/contracts as on the date of submission of bids, either in their individual capacity or in any firm/LLP in which they were/are partners/members. Any Concealment/wrong information in regard to above shall make the bid ineligible or the contract shall be determined under Clause 62 of the IRSGCC. (B) In case one or more members is/are Proprietary Firm or HUF, the following documents shall be enclosed (i) A copy of notarized affidavit on Stamp Paper declaring that his Concern is a proprietary Concern and he is sole proprietor of the Concern OR he who is signing the affidavit on behalf of HUF is in the position of 'Karta' of Hindu Undivided Family (HUF) and he has the authority, power and consent given by other members to act on behalf of HUF. (C) In case one or more members of the JV is/are companies, the following documents shall be submitted: (i) A copy of resolutions of the Directors of the Company, permitting the company to enter into a JV agreement, (ii) The copies of MOA/AOA of the company (iii) A copy of Certificate of Incorporation (iv) A copy of Authorization/copy of Power of Attorney issued by the Company (backed by the resolution of Board of Directors) in favour of the individual, to sign the tender, sign MOU/JV Agreement on behalf of the company and create liability against the company (D) In case one or more members of the JV is/are LLP firm/s, the following documents shall be submitted: (i) A copy of LLP Agreement (ii) A copy of Certificate of Incorporation of LLP (iii) A copy of resolution passed by partners of LLP firm, permitting the Firm to enter into a JV agreement (iv) A copy of Authorization /copy of Power of Attorney issued by the LLP firm (backed by resolution passed by the Partners) in favour of the individual, to sign the tender and/or sign the MOU/JV agreement on behalf of the LLP and create liability against the LLP. (v) An undertaking by all partners of the LLP that they are not blacklisted or debarred by Railways or any other Ministry/Department of the Govt. of India from participation in tenders/contracts as on the date of submission of bids, either in their individual capacity or in any firm/LLP or JV in which they were/are partners/members. Any Concealment/wrong information in regard to above shall make the contract liable for determination under Clause 62 of the Standard General Conditions of Contract (E) In case one or more members of the JV is/are Society/s or Trust/s, the following documents shall be submitted: (i) A copy of Certificate of Registration (ii) A copy of MOA of Society/Trust Deed (iii) A copy of Rules & Regulations of the Society (iv) A copy of POA, in favour of the individual to sign the tender documents and create liability against the Society/Trust. (F) All other documents as Para 10 of GCC</p>	Yes	Yes	Allowed (Mandatory)
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6	<p>TENDERER'S CREDENTIALS (BID CAPACITY) - For tenders having advertised value more than Rs 20 crore wherein eligibility criteria includes bid capacity also, the tenderer will be qualified only if its available bid capacity is equal to or more than the total value of the present tender. The available bid capacity shall be calculated as under: Available Bid Capacity = $[A \times N \times 2] - 0.33 \times N \times B$ Where, A = Maximum value of construction works executed and payment received in any one of the previous three financial years or the current financial year (up to date of inviting tender), taking into account the completed as well as works in progress. N= Number of years prescribed for completion of work for which bids has been invited. B = Existing commitments and balance amount of ongoing works with the tenderer as per the prescribed proforma of Railway for statement of all works in progress and also the works which are awarded to the tenderer but yet not started up to the date of inviting of tender. Note: (a) The Tenderer(s) shall furnish the details of - (i) Maximum value of construction works executed and payment received in any one of the previous three financial years or the current financial year (up to date of inviting tender) for calculating A, and (ii) Existing commitments and balance amount of ongoing works with tenderer as per the prescribed proforma of Railway for statement of all works in progress and also the works which are awarded to tenderer but yet not started upto the date of inviting of tender for calculating B. In case of no works in hand, a 'NIL' statement should be furnished. The submitted details for (i) and (ii) above should be duly verified by Chartered Accountant. (b) In case if a bidder is JV, the tenderer(s) must furnish the details of (i) Maximum value of construction works executed and payment received in any one of the previous three financial years or the current financial year (up to date of inviting tender) by each member of JV for calculating A, and (ii) Existing commitments and balance amount of ongoing works with each member of JV either in individual capacity or as a member of other JV as per the prescribed proforma of Railway for statement of all works in progress and also the works which are awarded to each member of JV either in individual capacity or as a member of other JV but yet not started upto the date of inviting of tender for calculating B. In case of no works in hand, a 'NIL' statement should be furnished. The submitted details for (i) and (ii) above should be duly verified by Chartered Accountant. (c) Value of a completed work/work in progress/work awarded but yet not started for a Member in an earlier JV shall be reckoned only to the extent of the concerned member's share in that JV for the purpose of satisfying his/her compliance to the above mentioned bid capacity in the tender under consideration. (d) The arithmetic sum of individual "bid capacity" of all the members shall be taken as JV's "bid capacity". (e) In case, the tenderer/s failed to submit the above statement along with offer, their/his offer shall be considered as incomplete and will be rejected summarily. (f) The available bid capacity of tenderer shall be assessed based on the details submitted by the tenderer. In case, the available bid capacity is lesser than estimated cost of work put to tender, his offer shall not be considered even if he has been found eligible in other eligibility criteria/tender requirement.</p>	Yes	Yes	Allowed (Mandatory)
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Undertakings

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	It shall not be obligatory on the said authority to accept the lowest tender and no tenderer/ tenderers shall demand any explanation for the cause of rejection of his/their tender.	No	No	Not Allowed
2	If the tenderer s deliberately give/gives wrong information in his/their tender or create/creates circumstances for the acceptance of his/their tender, the Railway reserves the right to reject such tender at any stage.	No	No	Not Allowed
3	If the tenderer s expires after the submission of his/their tender or after the acceptance of his tender, the Railway shall deem such tender as cancelled. If a partner of a firm expires after the submission of their tender or after the acceptance of their tender, the Railway shall deem such tender as cancelled unless the firm retains its character.	No	No	Not Allowed

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4	The successful tenderer/tenderers shall be required to execute agreement with the President of India acting through the CPM GS CKP for carrying out the work as per Unified Standard Schedule of rates Works materials and according to the S.E.Railways Standard General Conditions of contract , special conditions/specification annex to the tender and standard specifications.	No	No	Not Allowed
5	The Railway reserves the right of not invite tenders for any of the railway work/works or to invite open or limited tenders and when tenders are called, to accept a tender in whole or in part or reject any tender or all tenders without assigning reasons for such action.	No	No	Not Allowed

6. Documents attached with tender

S.No.	Document Name	Document Description
1	DECLARATIONOFRETDRLYEMPLOYEE.pdf	Declaration Retd Railway Employee
2	ANNEXUREVIBforFINANCIALCRITERIA.pdf	Annexure VI B for FINAN CRITERIA
3	ANNEXUREVIAforBIDSECURITY.pdf	ANNEXURE VI A for Bid Security
4	Tele_Cir_9-2023-New.pdf	Telecom Circular
5	Annexure-VANEW.pdf	ANNEXURE V A
6	ConditionforLCCredit.pdf	Condition for LC Credit
7	JVGUIDELINES.pdf	JV GUIDELINES FOR PATICIPATION
8	MOUFORMATFORJVPARTICIPATION.pdf	MOU FORMAT FOR JV PARTICIPATION
9	JVAGREEMENTFORMAT.pdf	JV Agreement Format
10	GCC-2022-ACS10_merged3.pdf	GCC 2022 CUT 04032025
11	ANNEXUREVIforBIDCAPACITY_1.pdf	Bid Capacity Format
12	Correctionslip11toGCC2022.pdf	Correction slip 11 GCC 2022

This tender complies with Public Procurement Policy (Make in India) Order 2017, dated 15/06/2017, issued by Department of Industrial Promotion and Policy, Ministry of Commerce, circulated vide Railway Board letter no. 2015/RS(G)/779/5 dated 03/08/2017 and 27/12/2017 and amendments/ revisions thereof.

As a Tender Inviting Authority, the undersigned has ensured that the issue of this tender does not violate provisions of GFR regarding procurement through GeM.

Signed By: KAILASH CHAND SHARMA

Designation : CPM/GS/CKP