

GM/Co/BRC acting for and on behalf of The President of India invites E-Tenders against Tender No **BRC-EN-TEN-BHET-SEC-121-1** Closing Date/Time 18/11/2022 15:00 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	Construction of Station building at Bhestan for DFCCIL Connectivity with IR& Security Office/Post at New Udhna Junction Station of DFCCIL in the jurisdiction of CGM/Vadodara Unit.		
Bidding type	Normal Tender		
Tender Type	Open	Bidding System	Single Packet System
Tender Closing Date Time	18/11/2022 15:00	Date Time Of Uploading Tender	
Pre-Bid Conference Required	No	Pre-Bid Conference Date Time	Not Applicable
Advertised Value	24130908.22	Tendering Section	CIVIL
Bidding Style	Single Rate for Each Schedule	Bidding Unit	
Earnest Money (Rs.)	270700.00	Validity of Offer (Days)	90
Tender Doc. Cost (Rs.)	0.00	Period of Completion	10 Months
Contract Type	Works	Contract Category	Expenditure
Bidding Start Date	04/11/2022	Are Joint Venture (JV) firms allowed to bid	No
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 2019 (CIVIL)							20486484.64	Above/Below/Par
01	Please see Item Breakup for details.				21564720.67	(-) 5.00	20486484.64	
Description:- EARTH WORK								

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule B-SCHEDULE B NS ITEMS MISCELLANEOUS							1676001.72	Above/Below/Par
02	Please see Item Breakup for details.				1676001.72	AT Par	1676001.72	
Description:- SCHEDULE B								

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule C-SCHEDULE C SANITARY INSTALLATIONS							292490.86	Above/Below/Par
03	Please see Item Breakup for details.				292490.86	AT Par	292490.86	
Description:- SCHEDULE C SANITARY INSTALLATIONS								

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule D-SCHEDULE D ELECTRICAL WORK							1235511.00	Above/Below/Par
04	Please see Item Breakup for details.				1235511.00	AT Par	1235511.00	
Description:- SCHEDULE D ELECTRICAL WORK								

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule E-SCHEDULE E CIVIL WORK							440420.00	Above/Below/Par
05	Please see Item Breakup for details.				440420.00	AT Par	440420.00	
Description:- SCHEDULE E CIVIL WORK								

3. ITEM BREAKUP

Schedule	Schedule A-SCHEDULE A CPWD DSR 2019 (CIVIL)								
Item- 01	EARTH WORK								
S No.	Item No	Description of Item				Unit	Qty	Rate	Amount
	2.0	EARTH WORK							
	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	114	92.55	10550.7

	2.6	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-charge.				
2	2.6.1	All kinds of soil	cum	1439	181.85	261682.15
	2.10	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m :				
	2.10.1	All kinds of soil				
3	2.10.1.2	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia	Metre	146	364.2	53173.2
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	1270	323.9	411353
	2.26	Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials.				
5	2.26.1	All kinds of soil	cum	340	90.4	30736
6	2.31	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 50 m outside the periphery of the area cleared.	Sqm	2300	12.55	28865
	4.0	CONCRETE WORK				
	4.20	Providing and laying in position ready mixed plain cement concrete, with cement content as per approved design mix and manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for plain cement concrete work, including pumping of R.M.C. from transit mixer to site of laying and curing, excluding the cost of centering, shuttering and finishing, including cost of curing, admixtures in recommended proportions as per IS : 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer-in-charge.				
	4.20.1	All works upto plinth level :				
7	4.20.1.1	M-15 grade plain cement concrete (cement content considered @ 240 kg/cum)	cum	164	7900.75	1295723
	5.0	REINFORCED CEMENT CONCRETE				
	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	48	284.85	13672.8
9	5.9.3	Suspended floors, roofs, landings, balconies and access platform	Sqm	545	693.05	377712.25
10	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers	Sqm	976	552.05	538800.8
11	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts	Sqm	667	733.7	489377.9
12	5.9.7	Stairs, (excluding landings) except spiral-staircases	Sqm	26	622.35	16181.1
	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.				
13	5.22.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	24345	83.5	2032807.5
	5.22A	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.				
14	5.22A.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	23197	83.5	1936949.5
	5.33S	DESIGN MIX CONCRETE				
	5.33	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge.				
15	5.33.1	All works upto plinth level	cum	260	7997.3	2079298
16	5.33.2	All works above plinth level upto floor V level	cum	197	9400.85	1851967.45
	6.0	MASONRY WORK				

	6.2	Brick work with common burnt clay modular bricks of class designation 7.5 in foundation and plinth in:				
17	6.2.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	72	5495.15	395650.8
	6.26S	EXPOSED BRICK WALL				
18	6.38	Providing and laying autoclaved aerated cement blocks masonry with 100 mm thick AAC blocks in super structure above plinth level up to floor V level in cement mortar 1:4 (1 cement : 4 coarse sand). The rate includes providing and placing in position 2 Nos 6 mm dia M.S. bars at every third course of masonry work.	cum	22	8227.35	181001.7
19	6.47	Providing and laying autoclaved aerated cement blocks masonry with 150mm/230mm/300 mm thick AAC blocks 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 seperately).	cum	178	6636.95	1181377.1
	8.0	CLADDING WORK				
	8.2	Providing and fixing 18 mm thick gang saw cut, mirror polished, pre moulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.				
	8.2.2	Granite of any colour and shade				
20	8.2.2.1	Area of slab upto 0.50 sqm	Sqm	140	4217.35	590429
	9.0	WOOD AND P.V.C. WORK				
	9.32S	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.				
21	9.48.2	Fixed to openings /wooden frames with rawl plugs screws etc.	Kg	3977	183.5	729779.5
	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 :				
22	9.71.2	100x60x2.50 mm	Each	90	77.3	6957
	9.105S	GYPSUM BOARD PARTITIONS				
	9.147D	Providing and fixing factory made uPVC white colour sliding glazed window upto 1.50 m in height dimension comprising of uPVC multi-chambered frame with in-built roller track and sash extruded profiles duly reinforced with 1.60 +/- 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), appropriate dimension of uPVC extruded glazing beads and uPVC extruded interlocks, EPDM gasket, wool pile, zinc alloy (white powder coated) touch locks with hook, zinc alloy body with single nylon rollers (weight bearing capacity to be 40 kg), G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealent over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes, wire mesh and silicon sealent shall be paid separately). Variation in profile dimension in higher side shall be accepted but no extra payment on this account shall be made.				
23	9.147D.2	Three track three panels sliding window with fly proof SS wire mesh (Two nos. glazed & one no. wire mesh panels) made of (small series) frame 92 x 44 mm & sash 32 x 60 mm both having wall thickness of 1.9 +/- 0.2 mm and single glazing bead of appropriate dimension (Area of window upto 1.75 sqm).	Sqm	51	8954.2	456664.2
24	9.147D.4	Three track three panels sliding window with fly proof S.S wire mesh (Two nos. glazed & one no. wire mesh panels) made of (big series) frame 116 x 45 mm & sash 46 x 62 mm both having wall thickness of 2.3 +/- 0.2 mm and single glazing bead / double glazing bead of appropriate dimension. (Area of window above 1.75 sqm).	Sqm	66	8616	568656
	10.0	STEEL WORK				

25	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	14.3	8670.5	123988.15
	10.16	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.				
26	10.16.1	Hot finished welded type tubes	Kg	1575	143.45	225933.75
27	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, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).	Kg	261	575.45	150192.45
	11.0	FLOORING				
	11.36S	CERAMIC GLAZED TILES				
28	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	252	927.9	233830.8
	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.				
29	11.41.2	Size of Tile 600x600 mm	Sqm	540	1500.55	810297
	12.0	ROOFING				
	12.1S	SHEET ROOFING				
	12.1	Providing corrugated G.S. sheet roofing including vertical / curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead, including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (up to 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.				
30	12.1.1	1.00 mm thick with zinc coating not less than 275 gm/sqm	Sqm	308	1234.25	380149
	12.40	Providing, fixing and embedding sand cast iron accessories for rain water pipes in the masonry surrounded with 12 mm thick cement mortar of the same mix, as that of masonry (lead caulking will be paid for separately):				
	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.				
31	12.41.2	110 mm diameter	Metre	120	305.05	36606
	12.42	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.				
	12.42.5	Bend 87.5 degrees				
32	12.42.5.2	110 mm bend	Each	14	129.85	1817.9
	12.42.6	Shoe (Plain)				
33	12.42.6.2	110 mm Shoe	Each	14	113.8	1593.2
	12.43	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.				

34	12.43.2	110 mm	Each	24	288.8	6931.2	
	12.45	Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound , jointing tapes , finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with :					
35	12.45.1	12.5 mm thick tapered edge gypsum plain board conforming to IS: 2095- (Part I) :2011 (Board with BIS certification marks)	Sqm	103	1117.65	115117.95	
	13.0	FINISHING					
	13.1S	CEMENT PLASTER (IN FINE SAND)					
	13.1	12 mm cement plaster of mix :					
36	13.1.2	1:6 (1 cement: 6 fine sand)	Sqm	1557	254.25	395867.25	
	13.3	20 mm cement plaster of mix :					
37	13.3.1	1:4 (1 cement: 4 fine sand)	Sqm	63	365.25	23010.75	
	13.16S	6MM CEMENT PLASTER					
	13.16	6 mm cement plaster of mix :					
38	13.16.1	1:3 (1 cement : 3 fine sand)	Sqm	536	227.35	121859.6	
	13.19S	ROUGH CAST PLASTER					
	13.19	Rough cast plaster upto 10 m height above ground level with a mixture of sand and gravel or crushed stone from 6 mm to 10 mm nominal size, dashed over and including the fresh plaster in two layers, under layer 12 mm cement plaster 1:4 (1 cement : 4 coarse sand) and top layer 10 mm cement plaster 1:3 (1 cement : 3 fine sand) mixed with 10% finely grounded hydrated lime by volume of cement.					
39	13.19.1	Ordinary cement finish using ordinary cement	Sqm	1139	681.1	775772.9	
	13.41	Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade :					
40	13.41.1	New work (two or more coats) over and including water thinnable priming coat with cement primer	Sqm	2042	153.45	313344.9	
	13.44S	EXTERIOR FINISHING					
	13.45	Finishing walls with textured exterior paint of required shade :					
41	13.45.1	New work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including priming coat of exterior primer applied @ 2.20kg/10 sqm	Sqm	160	232	37120	
	13.48	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :					
42	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	1139	142.2	161965.8	
	13.61	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :					
43	13.61.1	Two or more coats on new work	Sqm	177	121.55	21514.35	
	16.0	ROAD WORK					
	16.49S	MISCELLANEOUS					

44	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	322	859.35	276710.7
	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 tipplers 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.				
45	16.78.3	With material conforming to Grade-III (size range 26.5 mm to 0.075 mm) having CBR Value-20	cum	235	2474.6	581531
	17.0	SANITARY INSTALLATIONS				
46	17.31	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	Each	11	1283.05	14113.55
	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.				
47	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	11	555.35	6108.85
	18.0	WATER SUPPLY				
	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, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.-Internal work - Exposed on wall				
48	18.7.6	50 mm nominal outer dia Pipes	Metre	30	903.5	27105
	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, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge, Concealed work, including cutting chases and making good the wall etc.--Concealed work,including cutting chases and making good the wall etc.				
49	18.8.1	15 mm nominal outer dia Pipes	Metre	140	409.65	57351
50	18.8.3	25 mm nominal outer dia Pipes	Metre	60	561.95	33717
	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				
51	18.9.6	50 mm nominal outer dia Pipes	Metre	100	791.65	79165
	18.31S	C.I. SLUICE VALVES/ FIRE HYDRANTS & FIXTURES				
52	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.	Litre	6000	8.8	52800
	18.49S	C.P. BRASS FITTINGS				
	18.49	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :				
53	18.49.1	15 mm nominal bore	Each	19	418.95	7960.05
	18.52	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.				
54	18.52.1	15 mm nominal bore	Each	18	606.25	10912.5
	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.				
55	18.62.5	50 mm nominal bore, 242mm long, weighing not less than 1240 gms	Each	3	1250.3	3750.9
	19.0	DRAINAGE				

	19.1S	STONE WARE PIPES AND FITTINGS				
	19.3	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) up to haunches of S.W. pipes including bed concrete as per standard design :				
56	19.3.1	100 mm diameter S.W. pipe	Metre	50	388.3	19415
	19.4	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design:				
	19.4.1	100x100 mm size P type				
57	19.4.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	7	2307	16149
	19.6	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :				
58	19.6.2	150 mm dia. R.C.C. pipe	Metre	75	462.6	34695
59	19.6.3	250 mm dia. R.C.C. pipe	Metre	75	754.45	56583.75
	19.9	Constructing brick masonry circular type manhole 0.91 m internal dia at bottom and 0.56m dia at top in cement mortar 1:4 (1 cement : 4 coarse sand), inside cement plaster 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement, foundation concrete 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size), and making necessary channel in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement, all complete as per standard design :				
	19.9.1	0.91 m deep with S.F.R.C. cover and frame (heavy duty, HD-20 grade designation) 560 mm internal diameter conforming to I.S. 12592, total weight of cover and frame to be not less than 182 kg., fixed in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including centering, shuttering all complete. (Excavation, foot rests and 12mm thick cement plaster at the external surface shall be paid for separately) :				
60	19.9.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	17	11038.1	187647.7
	19.19	Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and approved quality				
	19.27	Constructing brick masonry road gully chamber 50x45x60 cm with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) including 500x450 mm pre-cast R.C.C. horizontal grating with frame complete as per standard design :				
61	19.27.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	5	5209.1	26045.5
	19.31	Extra for depth beyond 45 cm of brick masonry chamber :				
	19.32	Making soak pit 2.5 m diameter 3.0 metre deep with 45 x 45 cm dry brick honey comb shaft with bricks and S.W. drain pipe 100 mm diameter, 1.8 m long complete as per standard design.				
62	19.32.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	2	25278.75	50557.5
	23.0	RAIN WATER HARVESTING & TUBEWELLS				
	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				
63	23.1.1.1	300 mm dia	Metre	120	512.3	61476
	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.				
	23.3	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.				
64	23.3.3	200 mm nominal size dia	Metre	90	1066.05	95944.5

	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.				
65	23.4.3	200 mm nominal size dia	Metre	30	1135.8	34074
66	23.8	Gravel packing in tubewell construction in accordance with IS: 4097, including providing gravel fine/ medium/ coarse, in required grading & sizes as per actual requirement, all complete as per direction of Engineer-in-charge.	cum	4.8	1497.7	7188.96
67	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, i/c 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	8	857.6	6860.8
	26.0	NEW TECHNOLOGIES AND MATERIALS				
	26.73S	PREFAB/PRECAST TECHNOLOGY				
	26.74	Fabrication and manufacturing of solid precast concrete element with provisions of shear keys, connecting loops, dowel tubes and proper lifting accessories for walls, beams, slabs, stairs, column etc, of various thickness, shape and size of different concrete grades manufactured in controlled factory environment with approved methodology including moulds (Pallet system, Tilts form, table moulds, battery moulds, vertical moulds, beam moulds, column moulds, staircase moulds, Facade mould, etc.), mixing, transporting and placing of concrete, vibrating, curing, finishing, making necessary cutout/holes of required sizes for services, yard handling & stacking all complete as per IS 11447:1985 and as per approved shop drawings and design mix as per the direction of Engineer-in-Charge (Cost of reinforcement, Mechanical, Electrical and Plumbing inserts will be paid separately).				
68	26.74.1	Concrete grade M-35 (Cement content 370 kgs)	cum	23.4	14554.65	340578.81
					Total	21564720.67
Schedule	Schedule B-SCHEDULE B NS ITEMS MISCELLANEOUS					
Item- 02	SCHEDULE B					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	01	Any Item of CPWD Delhi Schedule of Rates- 2018 Vol-1 and Vol-2 (with Multiplying factor of 0.95 on rates)	Lumpsum	2.00	500000.00	1000000.00
2	02	"Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid door/window/Geosetory windows & other Frames/Chowkhat comprising of virgin PVC polymer of K value 58- 60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) fabricated with miter joints after applying PVC solvent cement and screwed with full body threaded Code Description Unit Rate No. 542 SUB HEAD : 26.0 NEW TECHNOLOGIES AND MATERIALS star headed SS screws having minimum frame density of 750 kg/ cum, screw withdrawal strength of 2200 N (Face) & 1100 N (Edge), minimum compressive strength of 58 N/mm2, modulus of elasticity 900 N/mm2 and resistance to spread of flame of Class A category with property of being termite/borer proof, water/moisture proof and fire retardant and fixed in position with M.S hold fast/lugs/SS dash fasteners of required dia and length complete as per direction of Engineer-In- Charge. (M.S hold fast/lugs or SS dash fasteners shall be paid for separately). Note: For WPC solid door/window frames, minus 5mm tolerance in dimensions i.e depth and width of profile shall be acceptable. Variation in profile dimensions on plus side shall be acceptable but no extra payment on this account shall be made:Frame size 65 x 100 mm"	Metre	158.00	950.14	150122.12

3	03	"Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid decorative type flush door shutter of required size comprising of virgin polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) having minimum density of 650 kg/ cum and screw withdrawal strength of 1800 N (Face) & 900 N (Edge), minimum compressive strength 50 N/mm ² , modulus of elasticity 850 N/mm ² and resistance to spread of flame of Class A category with property of being termite/borer proof, water/moisture proof and Code Description Unit Rate No. 543 SUB HEAD : 26.0 NEW TECHNOLOGIES AND MATERIALS fire retardant. WPC to be laminated with PVC foil of minimum 14 microns thick of approved design pasted with hot melt adhesive on both faces of shutter and fixing with stainless steel butt hinges of required size with necessary full body threaded star headed counter sunk S.S screws, all as per direction of Engineer-In- Charge. (Note: stainless steel butt hinges and necessary S.S screws shall be paid separately):35 mm thick"	Sqm	65.00	4683.31	304415.15
4	04	Providing water proofing treatment with china mosaic on terrace as per specification and special condition of contract.	Sqm	493.00	408.65	201464.45
5	05	Any Item of CPWD Delhi Schedule of Rates- 2018 HORTICULTURE AND LAND SCAPING (with Multiplying factor of 0.95 on rates)	Lumpsum	2.00	10000.00	20000.00
					Total	1676001.72
Schedule	Schedule C-SCHEDULE C SANITARY INSTALLATIONS					
Item- 03	SCHEDULE C SANITARY INSTALLATIONS					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	01	Providing and fixing WALL HUNG TYPE wash down water closet (European typeW.C.pan) HINDWARE/CERA or equivalent approved make of approved shade with seat cover, P OR S Trap, CP brass hinges and rubber buffers and Jointing the trap with soil pipe in cement mortar : 1:1 (1 cement: 1 fine sand) including cutting and making good the walls and floors where required with all labour and materials. All works are carried as per instruction and direction of Engineer-in harge. Note: Jaguar or Similar make.	Each	11.00	6428.84	70717.24
2	02	Supplying & Fixing flush valve with 32mm control cock & elbow set complete with adjustable sleeve and wall flange. Rate is inclusive of all items mentioned above.Metropole Flush Valve : Jaquar/Hans Grohe/Roca make	Each	11.00	3098.71	34085.81
3	03	Providing and Fixing charges C.P. Toilet paper holder. Toilet Paper Jaquar/Hans Grohe/Roca make.Rate is inclusive of all items mentioned above.	Each	11.00	1135.08	12485.88
4	04	"Providing and fixing White glazed vitreous Wash Basin Oval Under-Counter, size 550 x 460 mm, with supporting M.S. or C.I. Brackets, 1 no, 32 mm CP Bottle trap with extension piece to wall flange with rubber adopter for waste connection and waste coupling.; with rack bolt fittings.Oval Under Counter Basin Jaquar/Hans Grohe/Rocamake.Waste Coupling Jaquar/Hans Grohe/Roca.Bottel Trap: Jaquar/Hans Grohe/Roca make.Pillar cock: Jaquar /Hans Grohe /Roca .Long neck with ariator.Rate is inclusive of all items mentioned above."	Each	13.00	5078.81	66024.53
5	05	Providing and Fixing charges of 2 way Bib cock.Bib Cock :	Each	13.00	1599.09	20788.17
6	06	Providing and fixing large size flat back urinal of HINDWARE/CERA or equivalent approved make	Each	5.00	3952.36	19761.80
7	07	Providing and fixing 037 Bib cock of JAQUAR/HINDWARE or equivalent approved make	Each	11.00	849.03	9339.33
8	08	Providing & fixing C.P.angular STOP COCK of jaguar or equilent make.	Each	13.00	953.60	12396.80
9	09	Supplying and fixing 083 concealed stop cock heavy adujatable wall flange of Jaguar or Similar	Each	11.00	454.73	5002.03
10	10	"Providing & fixing 15mm C.P. brass angle valve with C.P. copper connecting pipe 450 mm long and nuts, washer and brass flange complete, including cutting and making good the wall where required.Angle Valve : Jaquar/Hans Grohe/Roca make.Copper Pipe : Jaquar/Hans Grohe/Roca make.Rate is inclusive of all items mentioned ab"	Each	11.00	1246.20	13708.20
11	11	"Providing and Fixings C.P. Soap dish for shower & EWC.Shop Dish: Jaquar/Hans Grohe/Roca make.Rate is inclusive of all items mentioned above."	Each	11.00	956.73	10524.03
12	12	Providing and Fixings C.P. Jali for nahani trap.	Each	11.00	735.71	8092.81
13	13	"Providing and fixing granite counter with bull nosing of edge for oval type wash basin including cutting of holes for wash basin but excluding cost of basin. The size and specification shall be as per special condition and / or as directed by Engineer in charge."	Each	13.00	735.71	9564.23
					Total	292490.86
Schedule	Schedule D-SCHEDULE D ELECTRICAL WORK					

Item- 04 SCHEDULE D ELECTRICAL WORK						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	01	Concealed wiring of light/fan/exhaust fan point with modular switches - The price shall cover for concealed wiring of light/fan/exhaust fan point with 1.5 mm ² PVC insulated, unsheathed, multi-stranded, FRLS copper conductor of 1100 Volt grade, ISI marked, conforming to IS: 694/1990 and 1.0 mm ² PVC insulated, unsheathed, multi-stranded, FRLS copper conductor of 1100 Volt grade, ISI marked, conforming to IS: 694/1990 as earthing wire with all accessories in concealed type of wiring in medium grade PVC conduit and accessories of make Precision/Modi/Prestoplast/ Gerard. The accessories shall be of modular type of C&S/MK/North west/L&T/Crabtree/Siemens/Anchor/Legrand/ Havells/Luminous make. Molded polypropylene switch board.	Each	162.00	400.00	64800.00
2	02	Providing plug point 6 Amp in concealed manner on existing board with modular switch - The price shall cover for concealed wiring of plug point with modular type universal 5 pin socket and switch 6 Amp, 230 Volt AC on existing board. The accessories shall be of modular type of C&S/MK/Northwest/L&T/Crabtree/Siemens/Anchor/Legrand/Havells/Luminous make. Molded polypropylene switch board shall be as per IS: 14772.	Each	40.00	103.00	4120.00
3	03	The price shall cover for concealed wiring of plug point with modular type universal 5 pin socket and switch 6 Amp, 230 Volt AC on separate board with 1.5 mm ² PVC insulated, unsheathed, multi-stranded, FRLS copper conductor of 1100 Volt grade, ISI marked, conforming to IS:694/1990 and 1.0 mm ² PVC insulated, unsheathed, multi-stranded, FRLS copper conductor of 1100 Volt grade, ISI marked, conforming to IS:694/1990 as earthing wire with all accessories in concealed type of wiring at a distance of approximately 3.0 metres or as per site requirement in medium grade PVC conduit and accessories of make Precision/Modi/Prestoplast/ Gerard. The accessories shall be of modular type of C&S/MK/Northwest/L&T/Crabtree /Siemens / Anchor/Legrand/Havells / Luminous make. Molded polypropylene switch board shall be as per IS: 14772.	Each	30.00	331.00	9930.00
4	04	Providing plug point 16 Amp in concealed manner on separate board with modular switch - The price shall cover for concealed wiring of plug point with modular type universal 5 pin socket and switch 15/16 Amp, 230 Volt AC on separate board with 2.5 mm ² PVC insulated, unsheathed, multi-stranded, FRLS copper conductor of 1100 Volt grade, ISI marked, conforming to IS: 694/1990 and 1.5 mm ² PVC insulated, unsheathed, multi-stranded, FRLS copper conductor of 1100 Volt grade, ISI marked, conforming to IS: 694/1990 as earthing wire with all accessories in concealed type of wiring at a distance of approximately 3.0 metres or as per site requirement in medium grade PVC conduit and accessories of make Precision/Modi/ Prestoplast/Gerard. The accessories shall be of modular type of C&S/MK/Northwest/ L&T/ Crabtree /Siemens/Anchor/Legrand/Havells/Luminous make. Molded polypropylene switch board shall be as per IS: 14772.	Each	10.00	488.00	4880.00
5	05	Providing electronic fan regulator, modular type - The price shall cover for supply, fixing, testing and commissioning of hum-free modular type Electronic fan regulator suitable for 80/100 Watt ceiling fan of step type with 'OFF' position, surface/flush type on existing board and its connection from existing supply. Miniature switch type regulators shall not be accepted.	Each	23.00	242.00	5566.00
6	06	The price shall cover for Supply, Fixing, testing and commissioning of ceiling fan on existing hook and its connection by FRPVC insulated, flexible copper cord, 1100Volt grade 24/0.20mm from existing ceiling rose with earth connection. A suitable suspension clamp made from G.I. flat of 40 x 6 mm with MS 'S' shaped hook of diameter not less than 10 mm shall be provided as per site requirement if fan hook is not available and is included in the scope of work. The supply of fans shall be of Orient, Crompton Greaves , Khaitan make 1400 MM Sweep of latest design and energy efficient.	Each	23.00	2000.00	46000.00
7	07	"Concealed wiring of sub-main with copper wire s/c, 2.5 mm ² - The price shall cover for concealed wiring of sub main with two-wire single core 2.5 mm ² PVC insulated, unsheathed, multi-stranded, FRLS copper conductor of 1100 Volt grade, ISI marked, conforming to IS: 694/1990 with one wire of 1.5 mm ² PVC insulated, unsheathed, multi-stranded, FRLS copper conductor of 1100 Volt grade, ISI marked, conforming to IS: 694/1990 in concealed manner as per site requirement in PVC conduit."	Metre	750.00	90.00	67500.00
8	08	Concealed wiring of sub-main with 2.5 mm ² in existing PVC conduit - The price shall cover for concealed wiring of sub main with two-wire single core 2.5 mm ² , PVC insulated, unsheathed, multi-stranded, FRLS copper conductor of 1100 Volt grade, ISI marked, conforming to IS: 694/1990 with one wire of 1.5 mm ² , PVC insulated, unsheathed, multi-stranded, FRLS copper conductor of 1100 Volt grade, ISI marked, conforming to IS: 694/1990 in concealed manner as per site requirement in existing PVC conduit.	Metre	500.00	77.00	38500.00

9	09	Concealed wiring of sub-main with copper wire s/c, 4.0 mm ² - The price shall cover for concealed wiring of sub main with two-wire single core 4.0 mm ² PVC insulated, unsheathed, multi-stranded, FRLS copper conductor of 1100 Volt grade, ISI marked, conforming to IS: 694/1990 with one wire of 2.5 mm ² PVC insulated, unsheathed, multi-stranded, FRLS copper conductor of 1100 Volt grade, ISI marked, conforming to IS: 694/1990 in concealed manner as per site requirement in PVC conduit. For AC and Submains. The wiring of AC & Submains to be run separately.	Metre	75.00	129.00	9675.00
10	10	Providing Exhaust Fan, 300 mm sweep - The price shall cover for supply of heavy duty, industrial exhaust fan of metal body, 300 mm sweep with bird guard operating on 230Volt, 50 Hz AC supply complete with all accessories of make Crompton Greaves/GEC/Almonard/Usha/Bajaj. The price shall also cover for fixing, testing and commissioning of the Exhaust Fan on existing pocket with rake bolts/Anchor fasteners of suitable size as per site condition, and its connection from existing ceiling rose with three-core, 24/0.20 mm size, FRPVC insulated, flexible copper wire of 1100 Volt grade.	Each	13.00	1653.00	21489.00
11	11	"Providing Distribution Board with MCB TP&N 32/63 Amp - 1 No, O/G MCB DP 10/16/32 Amp 12 Nos. - The price shall cover for supply, fixing,testing and commissioning of MCB distribution board made up of CRCA sheetsteel, powder coated with grey finish, dust and vermin proof, water resistantwith metallic door complete with MCBs of 10 KA breaking capacity. complete with wiring by suitable size of multi-stranded copper wire. The MCBs/ELCBs shall be ABB/L&T (Hagar)/GE/MDS/Siemens/C&S/ BCH/Schneider/CGL make."	Each	1.00	25000.00	25000.00
12	12	"Providing Distribution Board with MCB 4 Pole 40 Amp - 1 No Incoming, 1 No and O/G MCB SP 6/10/16 Amp - 12 Nos and MCB SP 32 Amps- 12 Nos. The price shall cover for supply, fixing,testing and commissioning of MCB distribution board made up of CRCA sheet steel, powder coated with grey finish, dust and vermin proof, water resistant with metallic door complete with MCBs of 10 KA breaking capacity. The DB shall be equipped with incoming MCB DP 16/20/32 Amp - 1 no, ELCB, 25 Amp, two-pole, 30 mA - 1 no and outgoing MCB SP 6/10/16 Amp - 2 nos, complete with wiring by suitable size of multi-stranded copper wire. The Distribution board Double Door with IP 54 Protection. 8 Way (8+24) including MCBs shall be Legrand/ABB/L&T (Hagar)/GE/MDS/Siemens make."	Numbers	1.00	32500.00	32500.00
13	13	"Providing Distribution Board with MCB TP&N 100 Amp - 1 No Incoming & for out going , O/G MCB TP & N 32 Amps 5 and MCBTP & N 63 Amp-1 Nos., The price shall cover for supply, fixing,testing and commissioning of MCB distribution board made up of CRCA sheetsteel, powder coated with grey finish, dust and vermin proof, water resistantwith metallic door complete with MCBs of 10 KA breaking capacity. complete with wiring by suitable size of multi-stranded copper wire. The Distribution board Double Door with IP 54 Protection. 8 Way (8+24) including MCBs shall be Legrand/ABB/L&T (Hagar)/GE/MDS/Siemens make."	Numbers	1.00	50526.00	50526.00
14	14	Providing MCB and starter with three pin plug point for AC unit - The price shall cover for supply, erection, testing and commissioning of power unit for A.C. in enclosure with MCB DP 20/25 Amp - 3 KA breaking capacity - 1 no, DOL starter of 16 to 25 Amp capacity suitable for 1.5/2.0 TR A.C. unit - 1 no, one no 16/20/25 Amp socket and three-pin plug top, 16/25 Amp of make ANCHOR-ROMA/CRABTREE/ NORTH-WEST/MK with 4.0 mm ² single core multi-stranded, PVC insulated, unsheathed FRLS copper conductor and 2.5 mm ² single core multi-stranded, PVC insulated, unsheathed FRLS copper conductor in green colour as earthing wire of 1100 Volt grade, ISI marked, conforming to relevant and latest IS in concealed manner as per site requirement in PVC conduit.	Each	9.00	1130.00	10170.00
15	15	"Supply of Split type Air Conditioner Unit, 2.0 Ton Capacity, 5-Star BEE Rating, wall mounting type with copper coil, shall work on 230 V AC supply. It include free installation with 15 feet extra piping. The make of Split type AC shall be Hitachi/Panasonic/Blue Star/Carrier with following specifications. Design: The elegant design of the air-conditioner. Its design and make also make it easy to open and clean up. Air Filters: The AC is fitted with Air filter such as Electrostatic Dust Filter, 3 in 1 filter, Active Carbon deodoriser and Cold Catalyst Filter. All these filters ensure to get the fresh air. Control: The split AC is equipped with modes Sleep, Turbo, Auto Restart, Auto Clean and Auto Swing. Speed of Cooling: The AC is able to cool down a room, turbo mode, air circulation of 560 CFM and adjustable air flow direction. Noise Level: The noise level of the air-conditioner shall not be more than 44 dB at the highest. Energy Rating: The BEE energy rating 2 ton AC is 5 stars which ensure efficient performance.Warranty : Warranty of complete AC unit will be for 1 year from the date of Installation. The Compressor shall have warranty of 5 years from the date of Installation."	Each	1.00	50000.00	50000.00

16	16	"Supply of Split type Air Conditioner Unit, 1.5 Ton Capacity, 5-Star BEE Rating, wall mounting type with copper coil, shall work on 230 V AC supply. It include free installation with 15 feet extra piping. The make of Split type AC shall be Hitachi/Panasonic/Blue Star/Carrier with following specifications.Design:The elegant design of the air-conditioner. Its design and make also make it easy to open and clean up.Air Filters:The AC is fitted with Air filter such as Electrostatic Dust Filter, 3 in 1 filter, Active Carbon deodoriser and Cold Catalyst Filter. All these filters ensure to get the fresh air.Control:The split AC is equipped with modes Sleep, Turbo, Auto Restart, Auto Clean and Auto Swing.Speed of Cooling:The AC is able to cool down a room, turbo mode, air circulation of 560 CFM and adjustable air flow direction.Noise Level:The noise level of the air-conditioner shall not be more than 44 dB at the highest. Energy Rating:The BEE energy rating 2 ton AC is 5 stars which ensure efficient performance.Warranty :Warranty of complete AC unit will be for 1 year from the date of Installation. The Compressor shall have warranty of 5 years from the date of Installation."	Numbers	8.00	40000.00	320000.00
17	17	Supply and Laying of LTUG Cable 50 Sq.mm, 3 & 1/2 core for arranging local supply.complete with erection charges.	Metre	300.00	400.00	120000.00
18	18	Supply and laying of LTUG cable 70 sq mm x2 core (AT to ACO) Complete with erection charges & Control Switch.	Metre	200.00	400.00	80000.00
19	19	Providing earthing - The price shall cover for digging of suitable size earth pit and supply of material and erecting pipe earthing and its refilling as per The earthing shall generally be governed by IS-3043/1987 or latest. G.I. pipe for the earthing electrode shall be 50 mm nominal bore diametre of 'B' class (medium grade) as per IS 1239/1990 or latest of make Tata /Zenith/ Jindal/Surya/Swastik with ISI marked and 3.0 m in length. Proper connecting arrangement with G.I. clamp,G.I. nuts and bolts of 12 mm size shall be provided at the top end of the earthing electrode. 6 SWG G.I. wire with PVC sleeve shall be connected between each point to be earthed and individual earthing station. The scope of work also covers making a groove of suitable depth and width by cutting the existing concrete/tar road/platform surface and its refilling/plastering as per site requirement after laying of G.I. earth wire. The G.I. earthing wire ends shall be clamped between two G.I washers of sufficient size and properly tightened with G.I. nuts and bolts of 10 mm dia. The earthing electrode pipe shall not project more than 250 mm above ground level. The end sealing G.I cap/funnel shall be provided at the top of the pipe earthing electrode. The circular earthing chamber and top cover should be pre-casted RCC as per drawing and shall be provided at the earthing electrode. Supply of earth electrode, GI wire/strip, clamps, nut-bolts, J-bolts, washers, wire mesh, sleeve, charcoal and salt as per drawing is within the scope of this item. The earth resistance shall be measured and recorded in the presence of railways' representative. This should not be more than 5 . The earth no., date of measurement and earth resistance value shall be painted on the earthing box or a permanent structure in the vicinity of the earth electrode.	Each	7.00	2770.00	19390.00
20	20	Providing LED street light luminary, 25 Watt, ±10% complete with all accessories - The price shall cover for supply of aesthetically designed outdoor 25 Watt (±10%) LED street light fitting made from pressure die-cast LM6/ADC12/LM24 housing with optimal heat sink for better thermal dissipation and toughened glass or UV stabilized polycarbonate cover with high transmission index for superior light output. The fitting shall be as per Western Railways' specification no. WR/CCG/ Specification/P/001 (Rev. 01) - 2018 of reputed quality and make. The fitting shall be designed for IP: 65 class protection. The price shall also cover for fixing, testing and commissioning of the above street light fitting on pole/truss/roof/wall by fabrication and supply of 'B' class G.I. pipe of required length, diametre and shape and fixed with M.S. clamps made from M.S. flat of 40 x 5 mm size duly painted with nut, bolts and washers of 12 mm diametre. The connection shall be carried out through ISI marked, PVC insulated, flexible three-core copper wire of size 24/0.20 mm from the existing overhead line/catenary/junction box as per site conditions. The connection cord shall be protected by suitable size of heavy duty flexible PVC conduit.	Each	5.00	2283.00	11415.00

21	21	Providing LED batten fitting 1 x 18 Watt complete with four-feet LED tube - The price shall cover for supply of 1 x 18/20 Watt LED batten fitting. The fixture shall be of CRCA channel finished with white polyester powder coating with high UV and corrosion resistance. The fixture shall be equipped with end caps, push fit type lamp holders and mains connector to directly fix 4 feet long LED tube. The LED lamp shall be of 18/20 Watt as per Western Railways' specification no. WR/CCG/ Specification/P/001 (Rev. 01) - 2018. The tube shall be of polycarbonate material. The entire fixture shall be of reputed quality and make. The price shall also cover for fixing testing and commissioning of the complete fitting at site by means of bracket made from GI flat of 25 x 3 mm with nuts, bolts and washers or on heavy duty, ISI marked PVC square box as per site requirement. Connection shall be given by means of 24/0.2 mm three-core flexible copper wire through connector and heavy duty flexible PVC conduit.	Each	38.00	535.00	20330.00
22	22	The price shall cover for Supply & Installation of LED Panel Light Fitting for recessed mounting in existing false ceiling, 15/22 Watts. Make Philips/Wipro/Havells supply, The entire fixture shall be of reputed quality and make. Connection shall be given by means of 24/0.2 mm three-core flexible copper wire through connector and heavy duty flexible PVC conduit.	Each	50.00	1000.00	50000.00
23	23	"Providing LED street light luminaries, 25 + 10% Watt complete with all accessories - The price shall cover for supply of 45 + 10% Watt LED Street Light fitting. The fitting shall be of reputed quality and make. The price shall also cover for fixing, testing and commissioning of the above street light fitting on pole/truss/roof/wall by fabrication and supply of 'B' class G.I. pipe of suitable length and diameter duly fixed with M.S. fabricated clamps made from M.S. flat and nut-bolts of suitable size. The connections shall be carried out through ISI marked, PVC insulated, flexible three-core copper wire of size 24/0.20 mm from the existing overheadline/catenary/junction box as per site conditions. The connection cord shall be protected by suitable size of flexible PVC conduit."	Each	8.00	2100.00	16800.00
24	24	Supply of Energy Efficient, Star rated Submersible pump of capacity 5.0 HP, Approximately 155 LPM Against the Head of approximately 87 Mtrs. Complete with all accessories make KSB, LUBI, DUKE and Sheeram .	Each	1.00	35000.00	35000.00
25	25	Supply and installation of Submersible cable 3 Core Flat 4.0 Sq.MM on size make Finolex,	Metre	200.00	110.00	22000.00
26	26	Providing Accessories like Non Return Valve , Sluice Valve, Water metre, Pressure Gauge, Bend Coupler, Syphon Hook, Etc for requirement for Installation of Submersible Pump.	Lumpsum	1.00	12000.00	12000.00
27	27	Erection of Above Pump Set with 2 Nos of Nylon Ropes 20 mm size (required for the lifting & removal of pump)	Numbers	1.00	7000.00	7000.00
28	28	Supply and Installation of UPVC non Corrosive , Hightech, High tensile Column Pipe 50 MM Diameter with its coupling each pipe Including accessories such as Coupling at each end and Elbow, T Bend etc.	Metre	80.00	449.00	35920.00
29	29	Supply and Installation Control Panel for Submersible pump.	Numbers	1.00	9000.00	9000.00
30	30	Providing Industrial type plug point 63 Amps.	Numbers	3.00	12000.00	36000.00
					Total	1235511.00
Schedule	Schedule E-SCHEDULE E CIVIL WORK					
Item- 05	SCHEDULE E CIVIL WORK					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	01	Supply & Fixing of factory made Structural stay in place Coffor panels of design specified thickness having width 1100mm and height 3000mm or as per site condition. Coffor Panel is composed of two filtering grids made of net reinforced by vertical stiffeners called 'C' channel. The grids are connected by rebar act as horizontal stiffeners & connectors act as a shear link. Design specified concrete will be poured in between Coffor panels from the top of the wall and finally finished with 15mm plaster. Net shall be made from 0.42mm thick and 342 mm width 275 GSM galvanized plain steel with rib at 100 mm interval in horizontal directions , mesh further strengthen by "C" channel made from 0.6 mm thick and 101 width 275 GSM galvanized plain steel with 8mm hole at every 200mm or 100mm intervals along the length of the channel, combination of rib mesh and "C" channel called Coffor single panels which remains on both face of the wall connected with the help of 5mm dia 100 GSM galvanized wire at every 200mm interval in vertical direction and connector made from 1.5 mm thick and 19mm width 120 GSM galvanized plain steel placed at every 400 mm intervals in horizontal direction and 200 mm intervals in vertical direction in zig zag pattern. In wall elements Coffor double panels installed with "C" channel in vertical direction.	Sqm	122.00	3360.00	409920.00

2	02	"Installation of Coffor Panels.Fixing operations of wall panels shall be completed in all respect as per drawings and specifications and under the overall direction of the Engineer-in-charge Including proper line & plumb with required supporting scaffolding material complete all as directed by Engr-in-Charge."	Sqm	122.00	250.00	30500.00
					Total	440420.00

4. ELIGIBILITY CONDITIONS

Special Financial Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As mentioned in Tender Document	No	No	Allowed (Mandatory)

Special Technical Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As mentioned in Tender Document	No	No	Allowed (Mandatory)

5. COMPLIANCE

Check Lst

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As mentioned in Tender Document	No	No	Not Allowed

Commercial-Compliance

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As mentioned in Tender Document	No	No	Allowed (Mandatory)
2	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)

Special Conditions

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As mentioned in Tender Document	No	No	Not Allowed

Technical-Compliances

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As mentioned in Tender Document	No	No	Allowed (Mandatory)

Undertakings

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As mentioned in Tender Document	No	No	Not Allowed

6. Documents attached with tender

S.No.	Document Name	Document Description
1	FinalTenderofBhestanSecurityPostdated03.11.2022.pdf	Tender Document

Signed By: ASHISH BARSENA

Designation : DYPM/Engg/ST

