

### Price Bid

Name of Work:- Renovation of existing damaged quarter to convert into Officers' Hostel at 132/33 KV Grid sub-station, Dullavcherra. (UNIT-I)

NIT No.: AEGCL/DGM/STTC/2022-23/04

Sl. No.	Description of Item	Qty	Unit	Rate exclusive of taxes (in figure)	Amount exclusive of taxes (in words)
<b>(A)</b>	<b>Civil Works</b>				
1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:3:6 (1 Cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone	1.613	cum		
2	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto & above plinth level. 5.22.6 Thermo-Mechanically Treated bars of grade Fe-500D or more.	54.923	Kg.		
3	Centering and shuttering including strutting, propping etc. and removal of form work for: 5.9.5. Lintels, beams, plinth beams, girders, bressumers and cantilevers	1.000	Sqm		
4	Centering and shuttering including strutting, propping etc. and removal of form work for: 5.9.3 Suspended floors, roofs, landings, balconies and access platform	7.400	Sqm		
5	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 : 5.2.2. 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)	2.445	cum		
6	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. 6.13.2 Cement mortar 1:4 (1 cement :4 coarse sand).	34.350	Sqm.		
7	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 5mm 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.	9.500	Rm.		

8	30 mm thick factory made Polyvinyl Chloride (PVC) door shutter made of styles and rails of a uPVC hollow section of size 60x30 mm and wall thickness 2 mm ( $\pm 0.2$ mm), with inbuilt decorative moulding edging on one side. 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 25x20 mm and 1 mm ( $\pm 0.1$ mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x30 mm and 2 mm ( $\pm 0.2$ 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 ( $\pm 0.1$ 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.	3.000	Sqm.		
9	12 mm cement plaster of mix : 13.1.1 1:4 (1 cement: 4 fine sand)	136.420	sqm		
10	Providing and fixing precoated galvanised steel sheet roofing accessories 0.50 mm (+0.05 %) total coated thickness, 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 Ridges plain (500 - 600mm)	33.000	Rm.		
11	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately). Sal wood.	0.195	cum		
12	Providing and fixing 35 mm thick factory made laminated veneer lumber door shutter conforming to IS : 14616 and TADS 15:2001 (Part B), fixing with butt hinges of required size with necessary screws, all complete as per directions of Engineer- in-charge and panelling with panels of : (Note:- Butt hinges and necessary screws shall be paid separately) 12 mm thick pre-laminated particle board (decorative lamination on both sides) grade -1, medium density flat pressed, three layer particle board FPT- I or graded wood particle board FPT- I, conforming to IS : 3087, bonded with BWP type synthetic resin adhesive as per IS : 848 and prelaminated conforming to IS : 12823, Grade 1, Type - II marked :	8.400	Sq.m		

13	Providing and fixing ISI marked M.S. pressed butt hinges bright finished with necessary screws etc. complete : 100x58x1.90 mm	32	Each		
14	Providing and fixing ISI marked oxidised M.S. sliding door bolts with nuts and screws etc. complete : 300x16 mm	3	Each		
15	Providing and fixing ISI marked oxidised M.S. tower bolt black finish, (Barrel type) with necessary screws etc. complete : 150x10 mm	8	Each		
16	100x10 mm each 39.10	20	Each		
17	Providing and fixing ISI marked oxidised M.S. handles conforming to IS:4992 with necessary screws etc. complete : 125 mm	8	Each		
18	100 mm	15	Each		
19	Providing and fixing factory made ISI marked steel glazed doors, windows and ventilators, side /top /centre hung, with beading and all members such as F7D,F4B, K11 B and K12 B etc. complete of standard rolled steel sections, joints mitred and flash butt welded and sash bars tenoned and riveted, including providing and fixing of hinges, pivots, including priming coat of approved steel primer, but excluding the cost of other fittings, complete all as per approved design, (sectional weight of only steel members shall be measured for payment). Fixing with carbon steel galvanised dash fastener of required dia and size (to be paid for separately)	723.520	KG		
20	Providing wood work in frames of false ceiling, partitions etc. sawn and fixed in position with necessary stainless steel screws etc. Kiln seasoned and chemically treated hollock wood	0.889	cum		
21	Providing and fixing plain multipurpose cement board(Hight pressure steam cured) with suitable screws for cement particle board in ceiling etc. complete (frame work to be paid seperately). 6 mm thick Cement fiber board as per IS: 14862	88.000	Sqm		
22	Barge board (Upto 300 mm)	42.000	Rm.		
23	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. Fixed to openings /wooden frames with rawl plugs screws etc.	35.100	Kg		

24	<p>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 &amp; 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.</p> <p>11.41A.1 Double charge vitrified tile polished finish of size 11.41A.1.1 Size of Tile 600 x 600 mm</p>	78.750	Sqm		
25	<p>11.41A.3 Glazed Vitrified tiles Matt/Antiskid finish of size 11.41A.3.1 Size of Tile 600 x 600 mm sqm 1311.05</p>	5.760	Sqm		
26	<p>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.</p>	16.800	Sqm		
27	<p>Providing and laying Polished 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. 11.56.1 Polished Granite stone slab colour of Black, Cherry/Ruby Red or equivalent.</p>	9.900	Sqm		
28	<p>Providing &amp; fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows, all complete with : 10.30.2 5.5 mm thick glass panes.</p>	4.800	Sqm		
29	<p>Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation,levelling &amp; dressing &amp; finishing the top smooth.</p>	18.500	Sqm		

30	<p>Providing drain with brick work in cement mortar in proportion 1:5 with half brick thick side walls and 100mm thick C.C (1:3:6) base over one brick flat soling including 15mm thick cement plastering in prop. 1:3 finished with a floating coat of cement slurry as directed with necessary shattering for sides and earth work in excavation of foundation trenches and refilling the sides after completion of work etc. as specified.</p> <p>i). 300mm wide and average 150mm deep with bed slope 1 in 150 with initial depth of 100mm.</p>	37.000	Rm.		
31	<p>Wall painting with acrylic emulsion paint, 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.</p> <p>13.82.2 Two coats.</p>	266.900	sqm		
32	<p>Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound ) content.</p> <p>13.85.3 With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre.</p>	285.220	sqm		
33	<p>Finishing walls with water proofing cement paint of required shade :</p> <p>13.109.1 Old work (one or more coats applied @ 2.20 kg/10 sqm) over priming coat of primer applied @ 0.80 ltrs/10 sqm complete including cost of Priming coat</p>	22.200	Sqm		
34	<p>Finishing walls with Acrylic Smooth exterior paint of required shade : 13.46.1 New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)</p>	142.610	Sqm		
35	<p>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/10sqm of approved brand and manufacture.</p>	4.620	Sqm		
36	<p>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</p>	26.040	Sqm		
37	<p>Dismantling of existing damaged CGI sheet roofing &amp; roof structure and replacement of the same with CGI Sheet roofing along with wooden truss with materials (Wood &amp; CGI Sheet) obtained after dismantling the existing roof of the same quarters and additional materials (if required) shall be obtained by further dismantling nearby abandoned quarter as directed by AEGCL.</p> <p>N.B: Cost of materials such as screws, bolts, nuts etc. required to complete the work successfully along with painting of the CGI sheet roofing (Two coats of paint over one coat of primer) must be considered while quoting the rate.</p>	1	Job		

<b>(B) Sanitary and water supply works</b>					
38	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 : W.C. pan with ISI marked white solid plastic seat and lid each	1	Each		
39	Supplying, fitting and fixing PVC pipes of 6 Kg/cm <sup>2</sup> (Supreme/Prince) or other ISI approved including joining ,fitting and fixing wiyh clamps etc.as necessary complete at all levels including below G.L as directed and specified. a) In exposed surfaces or in trenches. (ii) 110mm dia.	10	Rm		
40	(vi) 50mm dia	6	Rm		
41	Supplying fitting and fixing Chrome Plated (C.P.) shower 15mm dia. Of approved brand as directed and specified. (Pipes will be measured and paid separately) Jaquar make a) Continental(iii) Pressure adjustable shower with revolving joint	1	Each		
42	Supplying fitting and fixing 87.5 degree PVC bend with door of (Supreme/Prince) or other ISI approved including joining , fitting and fixing etc. as necessary complete at all levels including below G.L. as directed and specified. a) In exposed surfaces or in trenches. (ii) 110mm dia.	3	Each		
43	Supplying fitting and fixing PVC single tee with door of (Supreme/Prince) or other ISI approved including joining , fitting and fixing etc. as necessary complete at all levels including below G.L. as directed and specified. a) In exposed surfaces or in trenches. (ii) 110mm dia.	2	Each		
44	Supplying fitting and fixing approved uPVC Pipes of different sizes, with all necessary 'R' brand or similar approved uPVC fittings such as bend, tee, elbow, reducer, nipple, plug, long screw fitting, clamps etc. complete at all levels including below G.L as directed and specified. (A) Exposed or in trenches. SUPREME/PRINCE/SFMC brand or other equivalent approved brand (High pressure pipe (d) 25mm dia (f) 15mm dia	10 10	Rm Rm		

45	Providing vitreous China wash basin with CI/MS brackets, C.P brass chain with plug,PVC waste pipe including painting of fittings and brackets, cutting and making good the walls wherever required. (Pillar cock, stop cocks, waste coupling are to be paid separately).  (B) Hindware Make (a) White PEDESTAL BASIN (with pedestal). (ix) Cardiff 580 x 450 (Cat. No.C0480/81, C0375) (white/coloured)	2	Each		
46	Providing and fixing kitchen sink with C.I. brackets, C.P. brass chain with rubber plug, 40 mm C.P. brass waste complete, including painting the fittings and brackets, cutting and making good the walls wherever required: White glazed fire clay kitchen sink of size 600x450x 250 mm.	1	Each		
47	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.	2	Each		
48	Providing, fitting and fixing recessed soap tray / soap dish complete as directed and specified. (a) Parryware Make (ii) Wall Soap tray (Cat. No.C9951)	3	Each		
49	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. 600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88 mm, weighing not less than 190 gms.	1	Each		
50	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms. 15 mm nominal bore.	2	Each		
47	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931. 15 mm nominal bore each	1	Each		
48	Supplying fitting and fixing Chrome Plated (C.P.) sink cock of approved brand as directed and specified. (G.I. & C.P pipes will be measured and paid separately) (iii)Essco branda) Sink cock with "U" shape swinging casted spout	1	Each		
49	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 15mm nominal bore.	4	Each		

50	Supplying fitting & fixing health faucet of Hindware/Jaquar/Essco make as directed by the department	1	Each		
51	Providing fitting and fixing PVC cowl of ISI make complete as directed and specified. (iv)75 mm dia PVC cowl of ISI make	1	Each		
52	Clearance of service septic tank and removing the night soil and debris etc. manually from the tank/chamber to a distant place preferably during holidays or at night by bailing out the deposited night soil, burying the same in near by trenches/pits which has been dug earlier and covering the same. The service septic tank is cleaned with clear water and completed as directed by the Department. (d) For 30 users	1	Each		

**(C) Electrical Works**

53	Wiring for light/ fan/ call bell point with 2x1.5 sq mm P.V.C. insulated single core unsheathed industrial (Multistrand) cable FR conforming to IS-694: 1990 with flexible bright annealed electrolytic copper conductor for voltage grade up to 1100 volts (Finolex /RR Kabel /Nicco / Anchor or Equivalent Make as approved by the Deptt.) with flat 19 mm ISI marked casing 'n' capping (AKG / Precision/ Presto Plast/Polycab/ MW or equivalent make as approved by the Deptt.) in surface system, including 6 Amp flush type switch/ bell push (Anchor Penta/Gold medal /Kolor kany.Kom/ Havells or equivalent make as approved by the Deptt.) GI/ MS switch board (ISI marked) half conceal on wall with phenolic laminated sheet cover ,ceiling rose (Anchor/Gold medal /Kolor kany.Kom / Havells or equivalent make as approved by the Deptt.) etc. complete as directed and specified by the Deptt. 1.1.1= Short point up to 3.00 metre. length.	17	Each		
54	Wiring to 5 a pin 6 Amps plug point with 1.5 sq. mm P.V.C. insulated single core unsheathed industrial (Multistrand) cable FR conforming to IS-694: 1990 with flexible bright annealed electrolytic copper conductor for voltage grade up to 1100 volts (Finolex /RR Kabel /Nicco / Anchor or Equivalent Make as approved by the Deptt.) with flat 19 mm ISI marked casing 'n' capping (AKG / Precision/ Presto Plast/Polycab/ MW or equivalent make as approved by the Deptt.) in surface system, including 5 pin 6 Amps flush type plug socket and 6 Amps F/T switch (Anchor penta /Gold medal /Kolor kany.Kom/Havells or equivalent make as approved by the Deptt.), GI/ MS switch board (I.S.I. marked) with phenolic laminated sheet cover including earth continuity with 1.5 sq. mm. cable to third pin of the plug socket etc. as required complete, when placed elsewhere. 1.2.1=Short point up to 3.00 metre. length.	7	Each		

55	<p>Wiring for 5/6 pin 16 Amps power plug point with 4 sq. mm. P.V.C. insulated single core unsheathed industrial (Multistrand) cable FR conforming to IS-694: 1990 with flexible bright annealed electrolytic copper conductor for voltage grade up to 1100 volts (Finolex /RR Kabel /Nicco / Anchor or Equivalent Make as approved by the Deptt.) with flat 19 mm ISI marked casing 'n' capping (AKG / Precision/ Presto Plast/Polycab/ MW or equivalent make as approved by the Deptt.) in surface system, including providing and fixing 5/6 pin 16 Amps flush type socket outlets and 16 Amps flush type switch ( Anchor penta /Gold medal /Kolor kany.Kom/Havells or equivalent make as approved by the Deptt.),GI/ MS switch board (I.S.I. marked) with phenolic laminated sheet cover earth continuity with 2.5 sq. mm cable to the 3rd pin of the socket as required complete.</p> <p>1.3.2= Medium point up to 6.00 metre. Length.</p>	2	Each		
56	<p>Wiring for drawing sub-main line with P.V.C. insulated single core unsheathed industrial (Multistrand) cable FR conforming to IS-694: 1990 with flexible bright annealed electrolytic copper conductor for voltage grade up to 1100 volts (Finolex /RR Kabel /Nicco / Anchor or Equivalent Make as approved by the Deptt.) in surface flat ISI marked casing 'n' capping (AKG / Precision/ Presto Plast/Polycab/ MW or equivalent make as approved by the Deptt.) system including earth continuity.</p> <p>1.8.1=With 2 x 2.5 sq. mm. + earth continuity with 1x1.5 sq. mm. in flat 19 mm ISI</p>	100	Rm		
57	<p>Supplying fitting and fixing industrial Plug &amp; Socket in surface mounting SPN sheet steel powder painted MCB DB incorporated with MCB DIN rail, neutral link Earth bar of the following rating of DP MCB complete with making necessary connection etc. as specified and directed by the Deptt.</p> <p>13.1.1=20A Capacity. (ABB, Schneider MG, legrand, Hager make)</p>	1	Each		
58	<p>Supplying with fitting and fixing single Pole 10 KA 240/415V 50Hz MCB of the following capacity complete with making necessary connection as approved, specified and directed by the deptt.</p> <p>B Series (Schneider MG, legrand, Hager make)</p> <p>6 to 32A</p>	3	Each		
59	<p>Supplying and fitting of 18/20 Watt CFL lamp in the existing batten holder/angle holder/decorative bracket/bulk head fitting/ pendent holder etc. as specified and directed by the deptt.</p>	13	Each		

60	Supplying including fitting fixing of following A.C. Ceiling fan complete with all accessories like down rod, canopy etc. of following sweeps with making necessary connection as approved by the Deptt.)as required complete and as directed by the Department [Without regulator]. Premium model 1200 mm Sweep (ORIENT PSPO make) / Premium model 1050 / 1200 mm Sweep SS-390 Deco Havells make).	3	Each		
61	Supplying including fitting fixing of following A.C. Exhaust fan in the existing hole on the wall of following sweeps with making necessary connection as approved by the Deptt.)as required complete and as directed by the Department. Power Flow 225 mm sweep (ORIENT make)	2	Each		
62	Supplying fitting and fixing of ceiling fan regulator including connections etc. complete as required. Electronic Type	3	Each		
63	Supply, installation & testing of G.I. earth station with perforated 40 mm dia and 4.50 Metre long heady duty G.I. pipe with necessary 40 mm dia. G.I. Fittings such as Socket, Tee, elbow, nipple and 50 mmx40 mm G.I. reducing socket for funnel including locking arrangement 300 mmx300 mmx6 mm hinged cover C.I. earth plate complete with digging of earth pit, construction of brick chamber and plastering of both inner & outer surface of wall as specified and directed by the deptt .	1	Each		
				<b>Total Amount =</b>	
				<b>Add SGST @ 9% on =</b>	
				<b>Add CGST @ 9% on =</b>	
				<b>Grand Total =</b>	
				<b>Total Amount in Words =</b>	
				<b>Bidder's signature and seal:</b>	