

### SCHEDULE-B

#### Name of Work:- Construction of E & D Type Quarters at Gopalpuri(Stage-1, D type)

Sr.No.	Description of Items	Quantity	Rate		Unit	Amount ( In Figures)
			In Fig.	In Word		
Structure Work						
1	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, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil.	3909.00			M3	
(a)	Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials. All kinds of soil.	420.00			M3	
2	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	4329.00			M3	
3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :					
(a)	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)	633.00			M3	
4	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) upto plinth level with  Cement mortar 1:6 (1 cement : 6 coarse sand)	1437.00			M3	
5	Centering and shuttering including strutting, propping etc. and removal of form					
(a)	Foundations, footings, bases of columns, etc. for mass concrete	2813.00			M2	
(b)	Columns, Pillars, Piers, Abutments, Posts and Struts	2718.00			M2	
(c)	Lintels, beams, plinth beams, girders, bressumers and cantilevers	5755.00			M2	
(d)	Stairs, (excluding landings) except spiral-staircases	228.00			M2	
(e)	Walls (any thickness) including attached pilasters, buttresses, plinth and string	380.00			M2	
(f)	Weather shade, Chajjas, corbels etc., including edges	187.00			M2	
(g)	Suspended floors, roofs, landings, balconies and access platform	2338.00			M2	
6	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."(Note :- Cement content considered in this item is @ 330 kg/cum."Excess/ less cement used as per design mix is payable/recoverable separately).					
(a)	Providing M-30 grade concrete instead of M-25 (Concrete with minimum cement content of 350 kg /cum at all floor levels)	1785.00			M3	

Sr No	Description of Items	Quantity	Rate		Unit	Amount
7	Steel reinforcement for R.C.C. work including straightening, cutting,bending, placing in position and binding all complete upto plinth level and above.					
(a)	Thermo-Mechanically Treated bars of grade Fe-500 D or more.	72618.00			KG	
8	Steel reinforcement for R.C.C. work including straightening, cutting,bending, placing in position and binding all complete above plinth level.					
	Thermo-Mechanically Treated bars of grade Fe-500D	99508.00			KG	
9	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 :					
(a)	Cement mortar 1:6 (1 cement : 6 coarse sand)	1406.00			M3	
10	12 mm cement plaster of mix :					
	1:4 (1 cement: 4 fine sand)	12397.00			M3	
11	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement : 5 coarse sand) and a top layer 6 mm thick cement plaster 1:3 (1 cement : 3 coarse sand) finished rough with sponge.					
		8370.00			M2	
Painting Work						
12	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	11185.00			M2	
13	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface :					
	Water thinnable cement primer	11185.00			M2	
14	Wall painting with premium acrylic emulsion paint of interior grade, 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.					
	Two or more coats	11185.00			M2	
15	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade:					
	New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	8370.00			M2	
Flooring & Roofing Work						
16	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 @ 3.3kg/sqm including grouting the joints with white cement and matching pigments etc., complete.					
(a)	Size of Tile 600x600 mm	1638.00			M2	
17	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 @ 3.3kg/sqm including grouting the joint with white cement & matching pigments etc. complete.					
(a)	Size of Tile 600x600 mm	161.00			M2	

Sr No	Description of Items	Quantity	Rate		Unit	Amount
18	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 (1cement: 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.	202.00			M2	
19	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.	1325.00			M2	
20	Crazy ceramic tile flooring, with under layer 12 mm thick cement mortar 1:4 (1 cement: 4 coarse sand), with joints not exceeding 5 mm, including filling the gaps with ordinary cement mixture & mixing with synthetic polyester fibre, triangular in shape having specific gravity of 1.34 to 1.40, cross section size ranging from 10 to 40 micron & length upto 6 mm , mixing fibre @ 125 grams per 50 kg of cement in cement mortar,including providing and mixing water proofing material in mortar @ 1 kg per 50 kg of cement, all complete as per direction of Engineer-in- charge.	3129.00			M2	
21	Supplying and spreading chemical emulsion in sealed containers including delivery as specified and directed. Chlorpyrifos/ Lindane emulsifiable concentrate of 20%.	417.20			M2	
22	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.	1945.00			M2	
23	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement,mixed with matching pigment, epoxy touch ups, including rubbing, curing,moulding and polishing to edges to give high gloss finish etc. complete at all levels Granite of any colour and shade as directed by the Engineer-in-charge.					
(a)	Area of slab over 0.50 sqm	105.00			M2	
(b)	Area of slab up to 0.50 sqm	126.00			M2	
24	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.  40 mm thick with 20 mm nominal size stone aggregate	3129.00			M2	
Wooden Work						
25	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 with hold fast lugs or dash fastener.					
(a)	Second class teak wood	8.00			M3	

Sr. No.	Description of Items	Quantity	Rate		Unit	Amount
26	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows, including ISI marked M.S. pressed butt hinges bright finished of required size with necessary					
27	Second class teak wood 35 mm thick shutters providing and fixing mosquito door and Window shutter with aluminium Jali, second class teak wood frame, tower bolt, stopper, handle with stainless steel in complete as per direction of engineer in charge.	111.00			M2	
		111.00			M2	
28	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.					
a)	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	348.00			M2	
b)	25 mm thick (for cupboard) including ISI marked nickel plated bright finished M.S. Piano hinges IS : 3818 marked with necessary screws	143.00			M2	
29	Providing and fixing stainless steel following fixtures with stainless steel screws, nut & bolts etc. complete as directed.					
a)	Aldrops 300x16 mm Size	120.00			Each	
b)	Aldrops 250x16 mm Size	120.00			Each	
c)	Door Latch 250x16x5 mm Size	192.00			Each	
d)	Handle 150 mm	336.00			Each	
e)	Handle 125 mm	384.00			Each	
f)	Handle 100 mm	144.00			Each	
g)	Tower Bolts 200 mm Size	240.00			Each	
h)	Tower Bolts 100 mm Size	360.00			Each	
i)	Floor door stopper	240.00			Each	
30	Applying priming coat: With ready mixed pink or Grey primer of approved brand and manufacture on wood work (hard and soft wood)	459.00			M2	
31	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	459.00			M2	
32	Providing and fixing M.S. round or square bars with M.S. flats at required spacing in wooden frames of windows and clerestory windows.	7518.00			KG	
33	Providing and fixing M.S. ornamental grills, grilled doors and gates of M.S. Bars, pipes, GI pipes, M.S. Sheets, flat angles etc. including welding cutting necessary fittings and locking arrangements etc. complete.	7573.00			KG	
34	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade : Two or more coats on new work	561.00			M2	

Sr. No.	Description of Items	Quantity	Rate		Unit	Amount
35	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):					
A)	With float glass panes of 4.0 mm thickness	308.00			M2	
B)	Providing & Fixing of Aluminium snap beading on both side (Jindal section no 4407)	191.00			KG	
36	Providing & fixing Netlon Mosquito Net(Insect Screen) as approved by enginner inchrg including stiching , fixing all accessoriestools , plants , labour and materials etccomplete as directed.					
37	Providing and fixing Aluminium Louvers 500x600 MM in complete as per direction of engineer in charge.	277.00			M2	
38	Providing and fixing special quality bright finished brass cupboard or ward robe locks with four levers of approved quality including necessary screws etc. complete.	23.00			M2	
a)	40 mm	48.00			EACH	
39	Providing and fixing chromium plated brass 50 mm cupboard or wardrobe knobs with nuts complete.	96.00			EACH	
40	Lettering with black Japan/ Synthetic enamel/ floor enamel/ enamel paint of approved brand and manufacture as directed by engineering incharge.				PER METRE PER CM HEIGHT	
		72.00				
Sanitary Work						
41	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 :					
42	Kitchen sink with drain board. 510x1040 mm bowl depth 200 mm Providing and fixing 100 mm sand cast Iron grating for gully trap.	24.00 48.00			EACH EACH	
43	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: 100x100 mm size P type With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	48.00			EACH	
44	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:					
(a)	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests					
45	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 :	24.00			EACH	

Sr. No.	Description of Items	Quantity	Rate		Unit	Amount
(a) 46	W.C. pan with ISI marked white solid plastic seat and lid 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:	24.00			EACH	
(a)	White Vitreous China Wash basin size 630x450 mm with a single 15 mm C.P. brass pillar tap	48.00			EACH	
47	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.					
(a) 48	32 mm dia (Flexible pipe) 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.	72.00			EACH	
49	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.	24.00			EACH	
a) b)	75 mm dia.(outer Dia) 110 mm dia.(outer Dia)	1200.00 720.00			RMT RMT	
50	Providing and fixing PVC soil waste pipe as per IS 4985 including Y bends Elbow , T of the require suitable size of the pipe ,the rates are including fitting, cutting , bending complete as per direction of Engineer In- Charge					
a) b)	75 mm dia.(outer Dia) 110 mm dia.(outer Dia)	240.00 240.00			RMT RMT	
51	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 :					
(a) 52	150 mm dia. R.C.C. pipe Constructing brick masonry chamber for underground C.I. inspection chamber and bends with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg), R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:5:10 (1 cement : 5 coarse sand (Zone III) : 10 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand), finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete as per standard design:	480.00			RMT	
(a)	Inside dimensions 500x700 mm and 45 cm deep for pipe line with one or two inlets : with common burnt clay F.P.S. (non modular) bricks of class designation 7.5	48.00			EACH	
53	Extra for depth beyond 45 cm of brick masonry chamber :					

Sr No	Description of Items	Quantity	Rate		Unit	Amount
(a)	For 500x700 mm size With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	22.00			RMT	
54	Constructing brick masonry manhole in cement mortar 1:4 ( 1 cement : 4 coarse sand ) with R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design :					
(a)	Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) : With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	24.00			EACH	
55	Extra for depth for manholes : Size 90x80 cm					
56	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5 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.	22.00			RMT	
	Concealed work, including cutting chases and making good the walls etc.					
(a)	15 mm nominal outer dia Pipes	720.00			RMT	
(b)	20 mm nominal outer dia Pipes	840.00			RMT	
(c)	25 mm nominal outer dia Pipes	600.00			RMT	
57	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 : 15 mm nominal bore.	240.00			EACH	
58	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931. 15 mm nominal bore	120.00			EACH	
59	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet : 150 mm diameter	48.00			EACH	
60	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete: 25 mm nominal bore	48.00			EACH	
61	Providing and fixing PVC manhole cover Heavy duty with frame 600 x 600 mm size clear opening including cost of all labour & material as directed. For U/G Water Tank	24.00			EACH	
62	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) : 25 mm nominal bore	24.00			EACH	
63	Providing and fixing 600x120x5 mm glass shelf with edges round off, supported on anodised aluminium angle frame with C.P. brass brackets and guard rail complete fixed with 40 mm long screws, rawl plugs etc., complete.	120.00			EACH	

Sr. No.	Description of Items	Quantity	Rate		Unit	Amount
64	Providing and fixing Stainless Steel towel ring trapezoidal shape 215 mm long, 200 mm wide with minimum distances of 37 mm from wall face with concealed fittings arrangement complete, as per direction of Engineer in Charge.	48.00			EACH	
65	Providing and fixing PTMT gully or nahani grating 100 mm dia	144.00			EACH	
66	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.	48.00			EACH	
67	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. Circular tank	48000.00			LITRE	
68	Providing and fixing Stainless Steel towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement complete, as per direction of Engineer in Charge.  600 mm long towel rail with total length of 645 mm,width 78 mm and effective height of 88 mm	48.00			EACH	
69	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.).	600.00			KG	
70	Dismantling the existing F type Quarters including removing / separating out the salvage materials like doors & windows masonry, reinforcement etc as & where position etc complete including removing the foundation and filling the unwanted material outside Gopalpuri upto 4 km lead, prepare the surface for reconstruction of the quarters as directed by the Engineer-in-charge .	4012.00			M2	
<b>Credit Part</b>						
1	Taking away the salvage material to be received from the dismantling of F type quarters. Complete as directed by Engineer-in-charge.(Separate sheet attached).-Qtr F	4012.00			m <sup>2</sup>	
Total Rs.						
<b>Contractor</b>			EXECUTIVE ENGINEER (TD) DEENDAYAL PORT AUTHORITY			