

## **BILL OF QUANTITIES (B.O.Q)**

**Name of work:** Completion of balance works/Renovation of the existing PDC complex at Draba (Surankot- Poonch)

<b>S.No.</b>	<b><u>Particulars of Items</u></b>	<b>Unit</b>	<b>Rate</b>	<b>Approx. Quantity</b>	<b>Rate to be Quoted by the Contractor</b>
1	Earth work in excavation in trenches or drains (not exceeding 1.5 m in width as well as 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 with in a lead of 50 m. (All kinds of soils)	cum	82.40	243.00	
2	Earth Work in excavation over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, and lift upto 1.5 m, disposed earth to be levelled and neatly dressed (all kinds of soil) and lead up to 50 m.	cum	95.40	38.50	
3	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering all work upto plinth level in 1:4:8 ( 1 cement :4 coarse sand :8 graded stone aggregate 40 mm nominal size (Nallah)	cum	1217.45	36.54	
4	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering all work upto plinth level in 1:3:6 ( 1 cement :3 coarse sand :6 graded stone aggregate 40 mm nominal size (Nallah)	cum	1417.40	98.00	
5	Reinforced cement concrete work in beams, suspended floors, roofs having slope upto 15 <sup>0</sup> landings, balconies, shelves, chujjas, lintels, bands, plain window sills, stair cases and spiral cases upto floor five level excluding cost of centring, shuttering, finishing and reinforcement with 1:2:4 (1 cement:2 coarse sand:4 graded stone aggregate 20 mm nominal size)	cum	2135.85	3.56	
6	Reinforced cement concrete work in walls (any thickness) included attached pilasters, buttersses plinth and string courses, fillets, columns, pillars, piers, abulments, posts and struts etc. upto floor five level excluding cost of centring, shuttering, finishing and reinforcement 1:2:4 (1 cement:2 coarses and :4 graded stone aggregate 20 mm size).	cum	1971.35	2.90	
7	Filling available excavated earth (excluding rock) in trenches, plinth, slides of foundations etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead upto 50 m and lift upto 1.5 m.	cum	26.20	94.30	

S.No.	<u>Particulars of Items</u>	Unit	Rate	Approx. Quantity	Rate to be Quoted by the Contractor
8	Reinforcement for R.C.C work including straighting, cutting, bending, placing in position and binding all complete (Mild steel and medium tensile steel bars).	Kg	24.70	653.00	
9	Providing and laying in position cement concrete of specified grade excluding cost of centering, shuttering, all work upto plinth level 1:2:4 (1 cement:2 coarse sand:4 graded stone aggregate 20 mm nominal size (Nallah)	cum	1828.75	7.45	
10	12 mm cement plaster of mix 1:6 (1 cement:6 coarse sand).	Sqm	47.95	460.00	
11	20 mm cement plaster of mix 1:6 (1 cement:6 coarse sand).	Sqm	67.35	491.00	
12	12 mm cement plaster 1:3 (1 cement:3 coarse sand) finished with a floating coat of neat cement	Sqm	79.15	35.00	
13	P&F ceramic glazed floor tiles 300 x 300 mm (thickness to be specified by the manufacture) of ist quality conforming of IS/3755 of NITCO/ORIENT/SOMANY KAJARIA or equivalent make in colour such as white, Ivory, grey fume red brown laid on 20 mm thick bed of cement mortar 1:4 (1 cement:4 coarse sand) including pointing. The joints with white cement of matching pigment etc. complete	Sqm	478.90	455.20	
14	P&F ist quality cermic glazed tiles conforming to ISI 3753 of minimum thickness 5 mm of approved make like NITCO, ORIENT, SOMANY KAJARIA or equivalent make in all colour, shades except begundy, 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 @ 3.3 kg/sqm including pointing in white cement mixed with pigment of matching shade complete.	Sqm	373.30	301.00	
15	Cement concrete flooring 1:2:4 (1 cement:2 coarse sand:4 graded stone aggregate) finished with floating coat of neat cement including cement slurry but excluding cost of nosing of steps etc. complete (50 mm thick with 20 mm nominal size stone aggregate)	Sqm	140.60	25.00	
16	P&F 35 mm panalled or panalled and glazed shutters for doors, windows and clearstorey windows including ISI marked black enamelled M.S butt hinges wih necessary screws excluding panelling which will be paid separately (second class deodar wood).	Sqm	1010.85	96.50	

S.No.	<u>Particulars of Items</u>	Unit	Rate	Approx. Quantity	Rate to be Quoted by the Contractor
17	P&F 35 mm thick wire guage shutters using galvanised M.S wire guaze of average depth for apparure 1:4 mm with wire of dia 0.63 mm for doors, windows and clearstorey windows including I.S.I marked bright finished or black enamelled M.S butt hinges with necessary screws (IInd class deodar wood)	Sqm	1168.25	57.00	
18	Centring and shuttering including struting, propping etc. and removal of forms for suspended floors, roofs, landings, balconies and access plate form.	Sqm	105.75	8.40	
19	Centring and shuttering including struting propping etc. and removal of forms for foundation, footings, bases of columns, etc. for mass concrete.	Sqm	59.70	697.50	
20	Steel work welded in built up sections/framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required, in gratings, frames, guard bar, ladders, railings, brackets, gates and similar works.	Kg	34.85	600.00	
21	Brick work with F.P.S bricks of class designation 75 in foundation and plinth in cement mortar 1:4 (1 cement:4 coarse sand)	cum	1564.55	5.25	
22	Half brick masonry with bricks of class designation 75 in foundation and plinth in cement mortar 1:4 (1 cement:4 coarse sand)	Sqm	183.20	7.50	
23	Providing corrigated G.S sheets roofing fixed with polymer coated J or L hooks, bolts and nuts 8 mm dia with bitumen and G.I limpet washers filled with white lead and including a coat of approved steel primer and 2 coats of approved paint on overlapping of sheets complete (upto pitch of 60 <sup>o</sup> ) excluding cost of purlins, rafters and trusses (0.80 mm thick with zinc coating not less than 275 gm/m <sup>2</sup> ).	Sqm	343.10	35.00	
24	P&F 12 mm thick insulating board ceiling of approved quality with necessary nails etc. complete (frame work to be paid separately (white face insulating board)	Sqm	333.00	163.00	

S.No.	<u>Particulars of Items</u>	Unit	Rate	Approx. Quantity	Rate to be Quoted by the Contractor
25	Distempering with ist quality acry;ic washable distemper (ready made) of approved manufacture and of required shade and colour complete, as per manufacture's specification				
(a)	(Two or more coat on old work)	Sqm	11.70	783.00	
(b)	(Two or more coat on new work)	Sqm	19.40	1224.00	
26	Finishing walls with water proofing cement paint of approved brand and manufacture to give an even shade New work (Two or more coats applied @ 3.84 Kg/10 sqm)	Sqm	45.25	671.00	
27	Painting with synthetic enamel paint of approved brand and manufacture to give and even shade Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture.	Sqm	39.70	753.00	
28	Painting with aluminium paint of approved brand and manufacture to give an even shade (Two or more coats on new work)	Sqm	22.20	116.00	
29	Painting on G.S sheet with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade (New work) Two or more coats including a coat of approved steel primer but excluding coat of mordant solution.	Sqm	29.70	96.00	
30	Supply of soling stone.	cum	90.00	38.00	
31	Disposal of surplus earth with in lead of 100 mts.	cum	30.00	160.00	
32	Demolishing cement concrete including disposal of material with in 50 mts lead (1:3:6 or richer mix)	cum	234.40	15.00	
33	Demolishing stone rubble masonry including stacking of serviceable material and disposal of unserviceable material with in 50 m lead in cement mortar.	cum	235.90	2.90	

S.No.	<u>Particulars of Items</u>	Unit	Rate	Approx. Quantity	Rate to be Quoted by the Contractor
34	Removing mortar from stones and cleaning stones and concrete articles (net quantity of stacks of cleaned materials will be measured) In cement mortar.	cum	69.00	10.00	
35	P&F fly proof galvanised M.S wire guaze shutters to windows and clearstorey windows using galvanised M.S wire guaze with with average width of aparture 1.4 mm in both directions with wire of diametre 0.63 mm with lind class teakwood beading 62 x 19 mm	Sqm	375.45	31.00	
36	Carriage of materials by mechanical transport from source to site of work including loading, unloading and stacking complete.				
(a)	Cement (Av. Distance = 34 Km) from Poonch to Draba	M.T	120.10	37.15	
(b)	Steel (Av. Distance = 34 Km) from Poonch to Draba	M.T	120.10	0.65	
(c)	Sand (Av. Distance = 12 Km) from Lassana to Draba	Cum	105.15	92.90	
(d)	Bajri 40 mm (Av. Distance = 16 Km) from Madana to Draba	Cum	133.65	120.40	
(e)	Bajri 20 mm (Av. Distance = 16 Km) from Madana to Draba.	Cum	122.55	13.64	
(f)	Stone (Av. Distance = 16 Km) from Madana to Draba	Cum	144.00	38.00	
(g)	Bricks (Av. Distance = 200 Km) from Jammu to Draba	Per Thousand	1746.80	3850.00	
	<b><u>Sanitary Work</u></b>				
37	P&F white vitreous china pedestal type water closet (European type) with seat and lid 10 ltr low level flushing cistern with fittings and C.I./M.S brackers, 40 mm flush bend, overflows arrangements with specials of standard make and mosquito proof coupling of approved muncipal design complete including pointing of fittings and brackets, cuttings and making good the walls and floors wherever required.	Each	2574.30	8.00	

S.No.	<u>Particulars of Items</u>	Unit	Rate	Approx. Quantity	Rate to be Quoted by the Contractor
38	P&F wash basin with C.I/M.S brackets, 15 mm CP brass pillar taps, kingston/Gem/Techno/Parko/Jaguar/ESCKO, 32 mm CP brass waste of standard pattern, including painting of fittings and brackets, cuttings and making good the walls wherever required (wash basin size 550 x 400 mm with a pair of 15 mm CP brass pillar taps.	Each	961.75	16.00	
39	Providing 32 mm dia CP brass trap	Each	53.80	16.00	
40	Providing 32 mm dia CP brass union	Each	40.50	16.00	
41	P&F white vitreous china pedestal for wash basin completely recessed at the back for the reception of pipes and fittings.	Each	580.10	8.00	
42	Providing and fixing C.P brass long nose bib cock of approved quality confirming to IS standard and weighing not less than 810 gms (15 mm nominal bore).	Each	256.10	32.00	
43	Providing and fixing C.P brass bib cock of approved quality confirming to IS:8931 (15mm nominal bore).	Each	174.95	8.00	
44	Providing and fixing C.P brass angle valve for basin mixer and geyser points of approved make confirming to IS:8931 (15 mm nominal bore)	Each	174.75	64.00	
45	Providing and fixing C.P brass shower rose with 15 or 20 mm inlet (100 mm diameter)	Each	27.05	8.00	
46	Providing and fixing P.V.C waste pipe for sink or wash basin including P.V.C waste fitting complete 32 mm dia.	Each	27.90	24.00	
47	Providing and fixing mirror thickness of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing rectangular shape 453 x 357 mm.	Each	286.40	16.00	
48	Providing and fixing soil, waste and vent pipes 100 mm diameter sand cast iron S & S pipe	Mtr.	237.30	8.00	

S.No.	<u>Particulars of Items</u>	Unit	Rate	Approx. Quantity	Rate to be Quoted by the Contractor
49	Providing and fixing C.P. brass close hole basin mixer pillar tap of approved quality and make weighing not less than 1.970 Kg (15 mm nominal bore of standard back type).	Each	750.60	16.00	
50	Providing and fixing 600 x 120 x 5 mm glass shelf with edges round of 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	Each	156.20	16.00	
51	Providings and fixing complete G.I. pipes complete with G.I fittings and clamps (conceded pipe including painting with anti corrosive bitumastic paint, cutting chases and making good the wall (Internal work)				
(a)	15 mm dia nominal bore	Mtr.	88.20	250.00	
(b)	20 mm dia nominal bore	Mtr.	99.65	150.00	
(c)	25 mm dia nominal bore	Mtr.	110.25	100.00	
52	Providing and fixing C.P stop cock (concealed) of standard design and of approved make conforming to I.S:8931 ( 15 mm nominal bore).	Each	241.60	24.00	
53	P&F ball valve (brass) of approved quality complete				
(a)	25 mm dia nominal bore	Each	200.65	12.00	
(b)	20 mm dia nominal bore	Each	174.65	4.00	
(c)	15 mm dia nominal bore	Each	109.75	4.00	
54	P&F PVC pipe 100 mm (4 Kg/cm <sup>2</sup> ) I.S.I (Prince) or similar make marked including cement concrete 1:2:4 work complete with connections/approved quality	Mtr.	-	100.00	
55	P&F PVC plain bend I.S.I marked/ (Approved quality				
(a)	100 mm	Each	do	32.00	

S.No.	<u>Particulars of Items</u>	Unit	Rate	Approx. Quantity	Rate to be Quoted by the Contractor
(b)	75 mm	Each	-	32.00	
56	P&F PVC pipe 75 mm ((4 Kg/cm <sup>2</sup> ) I.S.I marked (Approved quality)	Mtr.	-	100.00	
57 (a)	P&F PVC door tee (100 mm) I.S.I marked (Approved quality)	Each	-	8.00	
(b)	100 x 75 mm (I.S.I marked) (Approved quality)	Each	-	8.00	
(c)	75 mm (I.S.I marked) (Approved quality)	Each	-	8.00	
58	P & F plane tee 75 mm (I.S.I marked) (Approved quality)	Each	-	16.00	
59	Providing cement solvent (I.S.I marked) (Approved quality)	Kg	-	4.00	
60 (a)	Providing rubber washer 100 mm (I.S.I marked) (Approved quality)	Each	-	96.00	
(b)	75 mm (I.S.I marked) (Approved quality)	Each	-	96.00	
61 (a)	Providing clamp 100 mm (I.S.I marked) (Approved quality)	Each	-	48.00	
(b)	75 mm (I.S.I marked) (Approved quality)	Each	-	48.00	
62 (a)	Providing PVC cowl 100 mm (I.S.I marked) (approved quality)	Each	-	16.00	
(b)	75 mm (I.S.I marked) (Approved quality)	Each	-	8.00	
63	Providind floor trap ISI mark (approved quality)	Each	-	40.00	
64	Providing safeda (I.S.I marked) (Approved Quality)	Kg	-	4.00	
65	Providing thread Packet	Packet	-	96.00	
66	Providing and fixing brackets (I.S.I marked) (Approved quality)	Each	-	16.00	
67 (a)	P & F C.P Nipple 1" (I.S.I marked) (approved quality)	Each	-	144.00	
(b)	2" (I.S.I. marked) (approved quality)	Each	-	48.00	
(c)	C.P hexa Nipple (I.S.I marked) (approved quality)	Each	-	16.00	

S.No.	<u>Particulars of Items</u>	Unit	Rate	Approx. Quantity	Rate to be Quoted by the Contractor
68	P & F hooks (I.S.I marked)	Each	-	400.00	
69	P & F C.I Manhole cover with frame (45 x 45 cm) I.S.I marked (Approved quality)	Each	-	16.00	
	<b><u>Electric Fittings</u></b>				
70	Taking down carefully copper/aluminium point wiring light, fan, socket or power complete with all fitting and fixtures such as switches sockets outlets ceiling rose, holders, regulators, shades, DBS, main switches etc. including making good the distributed surface of walls/floors complete.	Per point	-	50.00	
71 (a)	Point wiring with stranded copper conductor of size 1.5 sqmm PVC insulated unsheathed cable in and including PVC conduit of suitable size for concealed wiring including 1 sqmm copper earthwire for one light point or fan point or bell point controlled by one, one way switch using cable of different insulation colour for colour coding including 3 mm thick laminated sheet cover, steel or wooden boxes including cutting chases and making good in cement mortar 1:3 or PCC 1:2:4 (Complete all as specified and directed. Havell's/Anchor/ISI mark).	Per point	-	91.00	
(b)	As per item no. 71 , but for two way switch (Havell's/anchor/ISI marks).	Per point	do	2.00	
(c)	As per item no. 71 , but for one 3 pin sockets outlets 5 amp. On the same board (Havell's/anchor/ISI marks) 3 pin	Per point	-	39.00	
(d)	All as per Item no. 71 herein before but for one spin socket outlet 15 amp independent using cable of size 4 sqmm for power point.	Per point	-	30.00	

S.No.	<u>Particulars of Items</u>	Unit	Rate	Approx. Quantity	Rate to be Quoted by the Contractor
(e)	Point wiring stranded copper conductor of size 1.5 sqmm cable including 1.00 sqmm copper earthwire for one light point or fan point or bell point controlled by one, one way switch using cable of different insulation colour for colour coding including 3 mm thick laminated sheet cover, steel or wooden boxes on batten fittings complete in all respects as specified and directed (Havell's/Anchor/ISI mark).	Per point	-	70.00	
72	switch piano flush button single pole one way 5 amp. 240 volt (anchor/ISI marks)	Each	-	122.00	
73	Switch sockets combination 2 in 1, 3 pin 5 and 15 amp. Flush type universal. (anchor/ISI marks)	Each	-	30.00	
74	Switch socket outlet 2 pin and 3 pin 5 amp. Flush type anchor/ISI mark	Each	-	39.00	
75	Ceiling rose surface bakelile 65 x 50 mm two to three terminals	Each	-	18.00	
76	Supply and fixing fluorescent tube light fitting 36/40 w complete with copper ballast starter holder and tube rod complete all accessories prewired including provision of cable from the fitting to ceiling rose. (philips/Havells/Bajaj/ISI marks)	Each	-	26.00	
77	Fan regulator electronic dimmer type A.C 240 V, 5 steps including connection (anchor/Havells/ISI marks)	Each	-	18.00	
78	Compact fluoesent lamp 15/20 w as specified (Havells/Bajaj/ISI marks)	Each	-	91.00	
79	Sheet metal enclosure double door factory made for MCB DB's tripple pole and neutral 440 volts 4 ways with 200 amps rated bus bar (Havell's/anchor/ISI marks)	Each	-	2.00	

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80	Sheet metal enclosure double door factors made for MCB single pole and neutral 240 volts 8 ways with 200 amps rated bus bar (Havell's/anchor/ISI marks)	Each	-	6.00	
81	MCB TPN, 60 amp, 240 volts (havells/anchor/ISI marks)	Each	-	2.00	
82	MCB SPN, 20 amp, 240 volts, 6(havells/anchor/ISI marks)	Each	-	12.00	
83	MCB SPN, 40 amp, 240 volts, 6(havells/anchor/ISI marks)	Each	-	6.00	
84	Lamp holder bakellite cased body with back plate for batten fittings	Each	-	91.00	
85	1100 volts grade heavy duty cable PVC insulated aluminium conductor served with inner sheating of PVC take and overall PVC sheethed 20 sqmm 04 core cable, pipe or fixed to wall/pole all as specified and directed (Havell's/anchor/ISI marks)	Running Mtr.	-	105.00	
86	Providing and fixing of change over-63 amp. Of standard quality as approved (Havells/anchor/ISI marks)	Each	-	2.00	
87	Call Bell AC 230 V Electronic type as approved (ISI mark)	Each	-	6.00	
88	Supply and fix 1100 volt heavy duty two single core PVC insulated cable 4 sqmm copper conductor in and including PVC conduit with continuous earth wire copper conduit 06 sqmm all as specified and directed (Havells/anchors/ISI/marks)	Running Mtr.	-	150.00	

S.No	Particulars of items	Unit	Rate	Approx. Quantity	Rate to be Quoted by the Contractor
89	Earthing complete will galvanized mild steel earth plate electrode size 600 x 600 x 6.3 mm thick buried directly in ground (preferable in vertical position) earth pit not less than 2.25 meter below normal ground level with top edge of the earth plate not less 1.5 meter G.L connected to galvanized iron earth lead wire 4 mm dia by means of bolts, nuts, check nut and washer of galvanized iron including PCC pit in RCC 1:2:4 type B-I, precast RCC cover with suitable handle, excavation and earth work in any type of soil, 20 mm bore "medium grade" galvanized iron water tubing fixed with cast iron funnel and wire mesh and 15 mm bore "light grade" galvanized iron protection pipe for earth lead wire upto 5 m length, charcoal, cammon salt, complete all, connected to last point complete, all as specified and testing on completion.	Each	-	2.00	

















