

BILL OF QUANTITIES (BOQ)

**NAME OF THE WORK: CONSTRUCTION OF NEW BUILDING OF THE KANGRA
CO-OP PRIMARY AGRICULTURE AND RURAL DEVELOPMENT BANK AT
DHARAMSALA, DISTT KANGRA HIMACHAL PRADSEH**

SH : COST ESTIMATE OF WATER SUPPLY AND SANITARY INSTALLATION

DNIT

	ESTIMATED COST	337443.00
	EARNEST money	
	TIME LIMIT	
ISSUED TO :		

SCHEDULE OF WORK / ITEM (S)

SINo	Description of Work / Item (S)	No.of Qty.	Unit	DNIT AMOUNT	
	WATER SUPPLY & SANITARY ITEMS			Rate	Amount
1	Providing and fixing to wall ceiling and floor PPR tubes (heavy grade) tube fitting and clamps including making good the wall, ceiling and floor:-				
1.1	20mm nominal bore	150.00	Per RUNNING metres		
1.2	25mm nominal bore	45.00	Per RUNNING metres		
1.3	32mm nominal bore	25.00	Per RUNNING metres		
1.4	40mm nominal bore	20.00	Per RUNNING metres		
2	Providing and fixing stainless steel kitchen sink of approved standard ISI make with drain board and C.P. waste with C.I. or M.S. Brackets painted white including cutting holes and making good the same but excluding fitting jaquar/nirali/anupam make				
2.1	610 x460 mm with bowl depth 200 mm	1	Each		
2.2	470 x 420 mm with bowl depth178 mm.	1	Each		
3	Providing and fixing vitreous China wash basin with single hole for pillar tap with C.I. or M.S. brackets painted white including cutting holes and making good the same but excluding fittings:- jaquar/cera/hindawre make				
	(i) 600mmx480mm	6	Each		
3.1	Providing and fixing vitreous China pedestal for wash basin complete recessed at the back for the reception of pipes and fittings jaquar/cera/hindawre make	6	Each		
4	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: jaquar/cera/hindawre make	2	Each		
	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests				

4.1	Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10 litre low level white vitreous china flushing cistern & C.P. flush bend with fittings & C.I.brackets, 40 mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required :jaquar/cera/hindawre make	2	Each		
	W.C. pan with ISI marked black solid plastic seat and lid				
4.2	Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10 litre low level white vitreous china flushing cistern & C.P. flush bend with fittings & C.I.brackets, 40 mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required :jaquar/cera/hindawre make	1	Each		
	wall mounted seat with designer cover				
4.3	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430 x 260mm x 350 and 340x430x265mm sizes, respectively with automatic flushing cistern with fittings R.S or C.I. Brackets standard size galvanised steel flush pipe and spreaders galvanised steel flush pipe and spreaders with brass unions and G.I. clamps complete, including painting of cistern and fittings, cutting and making good the walls, floors where required jaquar/cera/hindawre make				
	Range of three urinal basins with 15 litres C.I. Automatic flushing cisterns	2	Each		
5	providing and fixing 600mm x 120 mm glass shelf with C.P. Brass bracket and guard rail complete, fixed to wooden plugs with C.P. Brass screws jaquar/cera/hindawre make	5	Each		
6	Providing and fixing C.P. brass angle valve 15mm without Nuts and pipe jaquar/cera/hindawre make	16	Each		
7	P/F CP brass Bib cock of approved quality : 15 mm nominal bore. jaquar/cera/hindawre make 15mm dia	16	Each		
8	P/F unplasticised PVC connection pipe with approved quality and colour: 15mm nominal bore with 45cm length. 15 mm nominal bore	16	Each		
9	Providing and fixing 600mm x 450 mm bevelled edge mirror of superior glass mounted on 6mm thick A.C. Sheet or plywood sheet and fixed to wooden plugs with C.P. Brass screws and washers.	6	Each		
10	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete Semi rigid pipe 32 mm dia	8	Each		
11	P/F PTMT swivelling shower 15 mm nominal bore, weighing not less than 40 gms. jaquar/cera/hindawre make	1	Each		
12	Providing and fixing chromium plated brass soap dish with C.P. Brass brackets fixed to wooden cleats with C.P. Brass screws jaquar/cera/hindawre make	12	Each		
13	Providing and fixing C.P. Brass Towel rail complete with C.P. Brass brackets fixed to wooden plugs with C.P. Brass screws 750mm x 20mmm	1	Each		
14	Providing and fixing PTMT wall mixture of approved quality and colour jaquar/cera/hindawre make	1	Each		

15	Providing and fixing Mixer for kitchen sink with casted swinging spout at top jaquar/cera/hindawre make	2	Each		
16	Providing and fixing PTMT liquid soap container of approved quality and colour with steel screws and rawal plugs etc jaquar/cera/hindawre make	1	Each		
17	Providing and fixing recessed Roll type toilet paper holder (Vitreous China) jaquar/cera/hindawre make	3	Each		
18	Providing and fixing stoneware gully trap grade 'A' complete with C.I grating, brick masonry chamber in cement mortar 1:5 and water tight C. I. cover with frame of 300mmx300mm size (inside) the weight of cover to be not less than 4.53kg and frame to be not less than 2.72kg	2	Each		
	Square Mouth Traps : (i) 100mmx100mm size P type				
19	Providing and fixing cast iron floor trap of self cleaning design with sand cast iron screwed down or hinged grating without vent arm complete including cost of cutting and making goods the walls and floors	18	Each		
	100mm nominal diameter				
20	Providing and fixing PVC water storage tank of ISI : 12701 marked, G.I. inlet and outlet connection, 15mm nominal bore ball valve and mosquito proof PVC cover with locking arrangement including hoisting up to all heights above ground level :-	3	Each		
	1000 litres net capacity tank				
21	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete : 20 mm nominal bore each	3	Each		
	20mm nominal bore				
22	P/f C. P. brass stop cock (concealed) of standard design and of approved make JAQUAR/ESS ESS/HINDAWARE Make 15 mm nominal bore	4	Each		
23	P/f C. P. brass stop cock (concealed) of standard design and of approved make JAQUAR/ESS ESS/HINDAWARE Make 20 mm nominal bore	10	Each		
24	Providing and fixing PTMT grating round of approved quality and colour 100 mm nominal dia.	18	Each		
25	Providing and fixing PPR Union in PPR pipe including cutting and threading the pipe and making long screws etc. complete (New work) : 20 mm nominal bore	30	Each		
26	Providing and fixing PVC door bend with oval access door, insertion rubber washer 3 mm thick bolts and nuts ISI marked complete including fixing with approved adhesive etc. complete.				
26.1	110 mm dia	9	Each		
26.2	75 mm dia	9	Each		
27	Providing and fixing PTMT towel ring trapezoidal shape 215 mm long, 200 mm wide with minimum distances of 37 mm from wall face with concealed fittings arrangement of approved quality and colour, weighing not less than 88 gms	6	Each		
28	P/f single equal plain junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.				
28.1	110 x 110 x 110 mm PVC				

		9	Each		
28.2	75x75x75 mm	9	Each		
29	Providing and fixing PVC plain bend ISI marked including fixing with approved adhesive etc. complete.				
29.1	110 x 110 x 110 mm PVC				
		9	Each		
29.2	75x75x75 mm	9	Each		
30	Providing and fixing PVC collars ISI marked including fixing with approved adhesive etc. complete.				
30.1	110 x 110 x 110 mm PVC				
		18	Each		
30.2	75x75x75 mm	18	Each		
31	Providing and fixing PVC cowl including carriage of material in all leads and lifts:(confirming to BIS Specifications) including carriage of materials to all lifts and leads as per the drawings, specifications and directions of Engineer.				
31.1	110 x 110 x 110 mm PVC	9	Each		
31.2	75x75x75 mm	9	Each		
32	Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete.				
	Twin rubber stopper	11	Each		
33	Providing and fixing oxidised M.S. hasp and staple (safety type) conforming to IS : 363 with necessary screws etc. complete				
	115 mm	12	Each		
	Sewage & External Water Supply				
34	Excavation in foundation, trenches etc. in earth work in all classification of soil such as pick work, jumper work, pick jumper work, blasting work, jumper blasting work, soft and hard blasting and saturated soil, de-watering, including wedging out rocks where blasting work is prohibited, chiseling or any other mixed variety of soil, de-watering and/or removal of slush and incidentals, lift upto any heights, stacking the excavated soil not more than 3 mtrs (Three meters) clear from the edge of excavation and then returning the stacked soil in 15cm (Fifteen centimeter)layers, when required into plinths, sides of foundation etc; consolidating each deposited layer by ramming, watering and then disposing of all excavated earth as directed by the Engineer-in-Charge, within all leads, lifts of materials and other incidentals as per approved drawing, design and as directed by the Engineer-in-Charge.	16.20	Per cubic metre		
35	Providing and laying cement concrete 1:5:10 (1 Cement : 5 Sand : 10 graded stone aggregate 40mm nominal size) in haunching of S.W. pipes of the following internal diameters , including concrete for beddings, necessary form work and curing complete :				
	250 mm diameter S.W. pipe	30.00	Per cubic metre		
	150 mm diameter S.W. pipe	45.00	Per cubic metre		

36	constructing manhole with r.c.c. top slab in 1:2:4 mix in 1 cement : 2 sand : 4 graded stone aggregate 20mm nominal size) foundation concrete 1:4:8 (1 cement : 4 sand : 8 graded stone aggregate 40mm nominal size) inside plastering 15mm thick with cement mortar 1:3 (1 cement 3 sand) finished with a floating coat of neat cement and making channels in concrete 1:2:4 mix (1 cement : 2 sand : 4 graded stone aggregate 20mm nominal size) finished smooth complete including curing and testing:				
36.1	(I) Inside size 800mm x 800mm and 500mm deep including C.I cover with frame. (Light duty single seal pattern - 1) 455 mmx610mm internal dimensions total weight of cover and frame to be not less than 38kg. (Weight of cover 23 kg and weight of frame 15 kg.)				
	a) With 200mm thick walls of brick masonry using common burnt clay building bricks in cement mortar 1:3 (1 cement : 3)	4.00	each		
36.2	(ii) Inside size 1200 x 900mm and 1000mm deep including C.I. cover and frame (medium duty) 500mm internal diameters total weight of cover and frame to be not less than 116kg (weight of cover 58 kg. Weight of frame 58 kg.)				
	With 200mm thick walls of brick masonry using common burnt clay building bricks in cement mortar 1:3 (1 cement : 3)	4.00	each		
37	Extra over item latter item for every additional depth of 0.10 metre or part thereof of manhole				
37.1	Size 120 x 90 cm With F.P.S. bricks class designation 75	1.35	per mt. length		
37.2	Size 80 x 80 cm With F.P.S. bricks class designation 75	1.50	per mt. length		
38	Providing and fixing PPR Union in PPR pipe including cutting and threading the pipe and making long screws etc. complete (New work)				
	25 mm dia. nominal bore	10.00	each		
	20 mm dia. nominal bore	20.00	each		
39	Providing and fixing PPR gate valve with C.I. wheel of approved quality (screwed end)				
	25 mm dia. nominal bore	6.00	each		
40	Providing and laying in trenches, galvanised mild steel tubes (light grade), tube fittings (earth work in trenches to be measured and paid separately)				
	25 mm dia. nominal bore	90.00	per mt. length		
41	Providing and fixing PPR pipes complete with PPR fittings and clamps, including cutting and making good the walls etc. internal work - Exposed on wall: 20 mm dia. nominal bore				
	20 mm dia. nominal bore	80.00	per mt. length		
				TOTAL	
	TOTAL OF WATER SUPPLY AND SANITARY INSTALLATIONS			RS.	