

Construction of Camp office at Village Ghoravali Rusia (Near Malaua Crossing) on Bina – Kurwai – Sironj Road Project in the state of M. P.

Tender No. : TCIL/BPL/NIT/BKS/10-11/CIVIL/09/RC-I

BILL OF QUANTITIES

SNO	DSR 2007 ITEM CODE	DESCRIPTION	QTY	UNIT	RATE		AMOUNT
					IN FIGURES	IN WORDS	
1	2.6	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed.					
	2.6.1	All kinds of soil	200	cum			
2	2.25	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.	200	cum			
3	2.25	Filling earth brought from outside 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.	125	cum			
4	4.1.10	1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	45	cum			
5	5.3	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases up to floor five level excluding the cost of centering, shuttering, finishing and reinforcement with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	8	cum			
6	5.9	Centering and shuttering including strutting, propping etc. and removal of form for :					
	5.9.3	Suspended floors, roofs, landings, balconies and access platform.	150	sqm			
7	5.22	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.					
	5.22.3	Cold twisted bars	750	kilogram			

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8	6.1	Brick work with F.P.S. bricks of class designation 75 in foundation and plinth in:					
	6.1.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	20	cum			
9	6.4	Brick work with F.P.S. bricks of class designation 75 in superstructure above plinth level up to floor V level in all shapes and sizes in :					
	6.4.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	30	cum			
		BRICK WORK					
10	14.25	Brick work with bricks of class designation 75 in mud mortar infoundations and plinth and superstructure upto 4.0 mtrs above plinth level	340	cum			
11	10.5	Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6mm angle iron and 3mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer.					
	10.5.1	Using M.S. angels 40x40x6 mm for diagonal braces.	20	sqm			
12	10.11	Providing and fixing factory made ISI marked steel glazed doors, windows and ventilators side /top /centre hung with beading and all members such as K11 B and K12 B etc. complete of standard rolled steel sections, joints mitred and flash butt welded and sash bars tenoned and riveted with 15x3mm lugs, 10cm long, embedded in cement concrete blocks 15x10x10cm of 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size) or with wooden plugs and screws or rawl plugs and screws or with fixing clips or with bolts and nuts as required, including providing and fixing of hinges, pivots, float glass panes with glazing clips and special metal sash putty of approved make and a priming coat of approved steel primer excluding the cost of metal beading and other fittings except necessary hinges or pivots complete as per approved design.	500	kg			

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13	10.2	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete:	850	kg			
14	10.16	Steel work in built up tubular trusses including cutting, hoisting fixing in position and applying a priming coat of approved steel primer, welded and bolted including special shaped washers etc. complete.					
	10.16.1	Hot finished welded type tubes.	6500	kg			
15	9.2	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.					
	9.20.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.	80	sqm			
16	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 and 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.					
	12.1.2	0.80mm thick with zinc coating not less than 275gm/m ²	650	sqm			
17	11.1	Brick on edge flooring with bricks of class designation 75 including cement slurry etc. complete in cement mortar with F.P.S. bricks:					
	11.1.2	1:6 (1cement : 6 coarse sand)	150	sqm			
18	13.5	15 mm cement plaster on rough side of single or half brick wall of mix :					

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					IN FIGURES	IN WORDS	
	13.5.2	1:6 (1 cement: 6 coarse sand)	900	sqm			
19	13.37	White washing with lime to give an even shade:					
	13.37.1	New work (three or more coats)	1300	sqm			
20	13.6	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade:					
	13.60.1	Two or more coats on new work	600	sqm			
21	13.7	12 mm cement plaster finished with a floating coat of neat cement of mix :					
	13.7.1	1:3 (1 cement: 3 fine sand)	300	sqm			
22	13.61	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :					
	13.61.1	Two or more coats on new work	450	sqm			
23	13.31	Pointing on brick work or brick flooring with cement mortar 1:3 (1 cement: 3 fine sand) :					
	13.31.1	Flush / Ruled/ Struck or weathered pointing.	2200	sqm			
24	17.1	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern 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 :					
	17.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440mm with integral type foot rests.	9	each			
25	17.2	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 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 :					

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					IN FIGURES	IN WORDS	
	17.2.1	W.C. pan with ISI marked white solid plastic seat and lid	5	each			
26	17.4	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350mm and 340x410x265mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required :					
	17.6.3	Range of three squatting plates with 10 litre P.V.C. automatic flushing cistern.	1	each			
	17.6.4	Range of four squatting plates with 10 litre P.V.C. automatic flushing cistern.	1	each			
27	17.7	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 :					
	17.7.1	White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps.	7	each			
28	17.10	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 :					
	17.10.1	Kitchen sink with drain board					
	17.10.1.1	510x1040 mm bowl depth 250mm.	4	each			
29	17.28	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.					
	17.28.1	Semi rigid pipe					
	17.28.1.1	32 mm dia	7	each			

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					IN FIGURES	IN WORDS	
	17.28.1.2	40 mm dia	4	each			
30	19.4	Providing and fixing square-mouth S.W. gully trap grade 'A' 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					
	19.4.1.1	With F.P.S. Bricks class designation 75	8	each			
31	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					
	18.7.1	15 mm nominal outer dia .Pipes.	500	metre			
	18.7.2	20 mm nominal outer dia .Pipes.	200	metre			
32	18.15	Providing and fixing brass bib cock of approved quality :					
	18.15.1	15 mm nominal bore	20	each			
33	18.16	Providing and fixing brass stop cock of approved quality :					
	18.16.1	15 mm nominal bore	20	each			
	18.16.2	20 mm nominal bore	6	each			
34	18.18	Providing and fixing ball valve (brass) of approved quality, High or low pressure. with plastic floats complete :					
	18.18.2	20 mm nominal bore	6	each			
35	18.21	Providing and fixing uplasticised PVC connection pipe with brass unions :					

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	18.21.1	30 cm length					
	18.21.1.1	15 mm nominal bore	30	each			
36	18.46	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work)					
	18.46.1	15 mm nominal bore	30	each			
	18.46.2	20 mm nominal bore	10	each			
37	18.49	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931					
	18.49.1	15 mm nominal bore.	4	each			
38	18.5	Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms.					
	18.50.1	15 mm nominal bore.	8	each			
39	18.52	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.					
	18.52.1	15 mm nominal bore.	7	each			
40	18.53	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 a) 15 mm nominal bore					
	18.53.1	15mm nominal bore	10	each			
41	18.48	Providing and placing on terrace (at all floor levels) polyethylene water storage tank ISI : 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	5000	per litre			
42	18.42	Boring with 100 mm diameter casting pipe for in all soils except ordinary hard rock including removing the casing pipe including inserting 110mm dia perforated PVC pipe.:					
	18.42.1	Up to 6 metres depth.	18	metre			

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	18.42.2	Beyond 6 m and up to 12 m depth.	18	metre			
	18.42.3	Beyond 12 m and up to 30 m depth.	54	metre			
43	19.7	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) 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 40mm nominal size) inside plastering 12mm 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 20mm nominal size) finished with a floating coat of neat cement complete as per standard design.					
	19.7.1	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) :					
	19.7.1.1	With F.P.S. bricks with class designation 75	10	each			
44	6.13	Half brick masonry with F.P.S. bricks of class designation 75 in superstructure above plinth level up to floor V level.					
	6.13.2	Cement mortar 1:4 (1 cement :4 coarse sand)	150	sqm			
45	12.4	Providing ridges or hips of width 60 cm over all width plain G.S. sheet fixed with polymer coated J. or L hooks, bolts and					
	12.4.1	0.80mm thick with zinc coating not less than 275gm/m ²	40	metre			
46	12.11	Extra for providing and fixing wind ties of 40x 6mm flat iron section.	100	metre			
		N S ITEMS					
47	1	Providing and fixing PVC pipes with chemical resins water tights with cost of all materiala like bend etc complete incuding trenching and backfilling wherever requirerd					
		(i) 110mm dia	500	Mtr			
		(ii) 75mm dia	250	Mtr			

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					IN FIGURES	IN WORDS	
48	2	Providing & fixing PVC specials of approved make including jointing fixing in positions necessary concreting etc complete as instructions of Engineer in charge					
		(i) Bend 100mm inner dia	6	each			
49	3	(ii)Providing and fixing trap of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors :					
		100 mm inlet and 75 mm outlet	25	each			
50	4	Providing and fixing 1HP submersible pump CRI/Crompton make in casing of 110 mm dia ISI make super DT quality PVC pipe of Ravindra Hissar/ Poly India or equivalent make. i/c ISI make G.I delivery pipe size not less then 25 mm medium quality, jali over filter pipe, starter for 1 HP submersible pump. ISI make waterproof insulated cable 1.5 sq. mm and other necessary GI fittings all complete. The depth of boring shall not be less then 200 ft	2	each			
51	5	Providing and fixing IInd quality ceramic glazed wall tiles conforming (thickness to be specified by the manufacture) 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.	200	sqm			
52	6	Providing and laying Ceramic glazed floor tiles 300x300 mm (thickness to be specified by the manufacturer) of IInd quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick Cement Mortar 1:4 (1 Cement : 4 Coarse sand) including pointing the joints with white cement and matching pigment etc complete	500	sqm			

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					IN FIGURES	IN WORDS	
53	7	<p>Provided and fixing at all heights false ceiling including providing and fixing of frame work made of special section power pressed from M.S.Sheet and galvanised in accordance with zinc coating of grade 350 as per IS 277 and consisting of angle cleats of size 25mm wide x 1.6mm thick with flanges of 22mm and 37mm at 1200 mm center to centre one flange fixed to the ceiling with dash fastener 12.5 mm dia x 40 mm along with 6mm dia bolts to the angle hangers of 25x25x0.55mm of required length and other end of angle hangers being fixed with nut and bolts to G.I. channels 45x15x0.9mm running at the rate of 1200 mm centre to centre to which the ceiling section 0.5mm thick button wedge of 80mm with tapered flanges of 26mm each having clip of 10.5mm at 450mm centre to centre shall be fixed in a direction perpendicular to G.I. channel with connecting clips made at every junction including fixing the boards with</p> <p>Ceiling section and perimeter channels 0.5 mm thick 27mm high having flanges of 20mm and 30mm long the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450mm centre to centre with 25mm long drive all screws @230 mm interval including jointing and fixing to a flush finish of tapered and square edges of the boardes with recommended filler jointing laps finisher and two coats of making opening for light fitting grills diffusers cutouts made with frame of perimetre channel suitably fixed all complete as per drawing and specification and direction of Engineer-in-charge but excluding the cost of painting with</p> <p>With 8mm thick Tapered edge clacium silicate board made with calcareous & siliceous materials reinforced with cellulose fibre manufacture through autoclaving process to give stable crystalline structure.</p>	200	sqm			
		TOTAL					

SIGNATURE OF CONTRACTOR

SEAL