

**PROPOSED CONSTRUCTION OF COMPOUND WALL,  
UG SUMP, EXTERNAL DEVELOPMENT WORK  
INCLUDING PROVIDING MS SHED WITH  
POLYCARBONATE SHEET FOR MRD AREA AND RAIN  
WATER HARVESTING AT URBAN HEALTH CENTRE,  
JIPMER PUDUCHERRY**

**Volume- IV  
BILL OF QUANTITIES**

**Tender No: HLL/IDD/CHN/19-20/032**

**Dated: 27<sup>th</sup> January 2020**



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**Bill of Quantities****Tender No: HLL/IDD/CHN/19-20/032 dt. 27.01.2020****Name of Work: Proposed Construction of Compound wall, UG sump, External Development work including providing MS shed with Polycarbonate sheet for MRD area and rain water Harvesting at Urban Health Centre, JIPMER Puducherry.**

<b>S. No</b>	<b>Description of work</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate in figs in Rs.</b>	<b>Rate in words In Rupees</b>	<b>Amount in figs In Rs.</b>
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	Cum	260.00			
2	Open timbering over areas including strutting, shoring etc. complete. (Measurements to be taken of the face area timbered):					
	Depth exceeding 1.5 m but not exceeding 3 m	Sqm	41.00			
3	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.	Cum	95.00			
4	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	Cum	78.00			
5	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level					
	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	5750.00			
6	Providing and laying in position cement concrete of specified					

	grade excluding the cost of centering and shuttering - All work up to plinth level :					
	1:4:8 (1 Cement : 4 coarse sand (zone-III) : 8 graded stone aggregate 40 mm nominal size)	Cum	52.00			
7	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 :					
	1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) : 3 graded stone aggregate 20 mm nominal size)	Cum	50.00			
8	Centering and shuttering including strutting, propping etc. and removal of form for :					
	Columns, Pillars, Piers, Abutments, Posts and Struts	Sqm	226.00			
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 :					
	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	14.00			
10	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 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	Kg	8000.00			
11	20 mm cement plaster of mix :					
	1:4 (1 cement: 4 coarse sand)	Sqm	125.00			
12	Providing and laying integral cement based treatment for water proofing on horizontal surface at all depth below ground level for under ground structures as directed by Engineer-in-Charge and consisting of :					
	Ist layer of 22 mm to 25 mm thick approved and specified rough stone slab over a 25 mm thick base of cement mortar 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound conforming to IS:2645 in the recommended proportion over the leveling course (leveling course to be paid separately). Joints sealed and grouted with cement slurry mixed with water proofing compound.					
	2nd layer of 25 mm thick cement mortar 1:3 (1 cement: 3 coarse sand) mixed with water proofing compound in recommended proportions.					
	Finishing top with stone aggregate of 10 mm to 12 mm nominal size spreading @ 8 cudm/sqm thoroughly embedded in the 2nd layer.					
	Using rough kota stone.	Sqm	40.00			
13	Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller	Sqm	174.00			

	including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earthwith lead upto 50 metres..					
14	Providing and laying factory made chamfered edge Cement Concrete paver blocks in footpath, parks, lawns, drive ways or light traffic parking etc, of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of sand, compacting andproper embedding/laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator,filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand. complete all asper direction of Engineer-in-Charge.					
	80 mm thick C.C. paver block of M-30 grade with approved color design and pattern.	Sqm	174.00			
15	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer -in-charge, beyond 90 metre & upto 150 metre depth below ground level.					
	All types of soil					
	300 mm dia	RM	36.00			
16	Supplying, filling, spreading & leveling stone boulders of size range 5 cm to 20 cm, in recharge pit, in the required thickness, for	cum	4.00			

	all leads & lifts, all complete as per direction of Engineer-in-charge.					
17	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 plain slotted (having slot of size 1.6/3.2 mm) mild steel threaded and socketed/ plain bevel ended pipe (type A) of required dia, conforming to IS: 8110, of reputed and approved make, having wall thickness not less than 5.40 mm, including painted with outside surface with two coats of anticorrosive bitumestic paint of approved brand and manufacture, including hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of Engineer -in-charge.					
	Supplying, assembling, lowering and fixing in 150 mm nominal size dia	RM	42.00			
18	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.					
	Group C	Point	9.00			
19	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required.					
	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	RM	50.00			
20	Installation, testing and commissioning of pre-wired,	Each	9.00			

	fluorescent fitting / compact fluorescent fitting of all types, complete with all accessories and tube/lamp etc. directly on ceiling/wall, including connections with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required.					
21	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer-in-charge, upto 90 metre depth below ground level.					
	All types of soil					
21.1	300 mm dia	RM	120.00			
21.2	400 mm dia	RM	120.00			
22	Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC medium well casing (CM) pipe of required dia, conforming to IS: 12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer -in-charge.					
22.1	150 mm nominal size dia	RM	52.17			
23	Supplying, assembling, lowering and fixing in vertical position in bore well unplasticized PVC medium well screen (RMS) pipes with ribs, conforming to IS: 12818, including hire & labour charges, fittings & accessories etc.					

	all complete, for all depths, as per direction of Engineer-in-charge.					
23.1	100 mm nominal size dia	RM	75.00			
23.2	150 mm nominal size dia	RM	226.09			
24	Gravel packing in tubewell construction in accordance with IS: 4097, including providing gravel fine/ medium/ coarse, in required grading & sizes as per actual requirement, all complete as per direction of Engineer-in-charge.	Cum	52.17			
25	Providing and fixing M.S. clamp of required dia to the top of casing/housing pipe of tubewell as per IS: 2800 (part I), including necessary bolts & nuts of required size complete.					
25.1	150 mm clamp	Each	10.00			
26	Providing and fixing Bail plug/ Bottom plug of required dia to the bottom of pipe assembly of tubewell as per IS:2800 (part I).					
26.1	150 mm dia	Each	10.00			
27	Supplying, filling, spreading & leveling stone boulders of size range 5 cm to 20 cm, in recharge pit, in the required thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge.	Cum	10.00			
28	Supplying, filling, spreading & leveling gravels of size range 5 mm to 10 mm, in the recharge pit, over the existing layer of boulders, in required thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge.	Cum	10.00			
29	Supplying, filling, spreading & leveling coarse sand of size range 1.5mm to 2 mm in recharge pit, in required thickness over gravel layer, for all leads & lifts, all	Cum	10.00			

	complete as per direction of Engineer -incharge.					
30	Providing and Placing in position suitable SBR water stops conforming to IS:12200 for construction/ expansion joints between two RCC members and fixed to the reinforcement with binding wire before pouring concrete etc.of suitable thickness complete as per Engineer - in - charge instruction	RM	30.00			
31	Providing and laying 500 gauge HDPE film over compacted earth/blinded soling to act as vapour barrier including cutting lapping, jointing etc. complete: Rate to include net overlapping of joints by 100mm. Sealing joints with adhesive.	Sqm	12.00			
32	Providing and fixing of Square shape 600 x 600 mm manhole SFRC cover with frame (Heavy Duty)	Each	1.00			
33	Providing and laying 2mm thick polycorponate sheet single skin designed materials and using 150mm * 150mm vertical square pillar , 50mm main truss pipe , 40mm square pipe for purlin section and etc..	Sqm	80.00			
34	Supply of IP65 rated gate light of 35W. Model: Havells CORALPT35WLED757PSYMT OPC or equivalent including all accessories, etc all complete	Nos	7.00			
35	Supply of 22W LED surface and wall mounted LED batten light. Havells ENDURALINEARNEOBS22WLED865SPCWH/ equivalent as per approved make	Nos	2.00			

36	Running the compressor to clean the borwell against any materials such as mud or clods entering during the operation of boring or sliding.	Job	10.00			
37	Construction of 1500x1500mm of internal dimension chamber with brick masonry thickness 230mm. The work include 1:2:3 cement concrete foundation 150mm thick over 150mm sand bed, plastering in 1:3 cement mortar for internal and external surface finished with floating coat of neat cement, RCC top cover. The work includes necessary excavations and backfilling and complete.	Each	10.00			
<b>Total Amount</b>						
<b>Add GST</b>						
<b>Grand Total Amount incl. of GST in Figures</b>						
<b>Grand total amount in words: Rupees</b>						

**END OF VOLUME - IV**