

**BEML LIMITED, BANGALORE**

Tender Number: 6300039932	Period of contract:	03 Months
	EMD : (Rs)	26,640.00

**Sub: Rain Water Harvesting At BEML Medical Centre, Bangalore Complex, BEML Ltd, Bangalore.**

**SCHEDULE 'A' - BILL OF QUANTITIES**

Sl. No	Description	Unit	Qty	Rate/unit in fig. & in words Rs.	Amount (Rs)
1	Earthwork excavation by mechanical/manual means not exceeding 1.50m in depth in any kind of soil including getting out the excavated earth, with a lead up to 50 mts, including dressing of sides, dewatering ground water/rain water if any, compaction including disposal of debris/unserviceable surplus earth outside the site premises to a distance not exceeding 5.0KM not objected by local civic authorities including lead ,lift etc.,complete all as specified and directed by Engineer in charge.	Cum	75.00		
2	Earthwork excavation in trenches by mechanical/manual means not exceeding 1.50m in width and not exceeding 1.50m in depth in any kind of soil including getting out the excavated earth, with a lead up to 50 mts, including dressing of sides, dewatering ground water/rain water if any, compaction including disposal of debris/unserviceable surplus earth outside the site premises to a distance not exceeding 5.0KM not objected by local civic authorities including lead ,lift etc.,complete all as specified and directed by Engineer in charge.	Cum	15.00		
3	Returning and filling the earth layer by layer including spreading, levelling, watering/consolidation and well ramming in layers not exc 25 cm etc., complete all as specified and directed by Engineer in charge.	Cum	15.00		
4	Providing and laying Plain Cement Concrete of mix proportion 1:3:6 of required thickness using 20mm downsize graded granite aggregates for foundation/ flooring, laid to a proper slope & gradient, well compacted, mechanical/manual mixing including curing etc., complete all as specified and directed by the Engineer in charge. Note: The rate quoted is deemed to include for providing and removal of scaffolding/staging wherever necessary.	Cum	7.00		
5	Providing and laying in position Reinforced Cement Concrete of required thickness of grade M30 for beams, using 20mm down graded granite aggregates, vibrating, consolidating, curing and finishing, dewatering wherever necessary, cost of all materials,labours, formwork, all lead lift, tools, plant & machinery, hire & fuel charges & all other incidental charges etc.,complete all as specified and as directed by Engineer in charge. Note:1. Reinforcement will be measured and paid separately under relevant item. 2. The rate quoted is deemed to include for providing and removal of scaffolding/staging wherever necessary.	Cum	12.00		
6	Rendering 20mm thick in Cement Mortar 1:3 on brick or concrete surfaces including finishing the surface even & smooth, curing, tools & tackles etc., complete all as specified and directed by Engineer-in-charge. Note: The rate quoted is deemed to include for providing and removal of scaffolding/staging wherever necessary.	Sqm	50.00		
7	Providing Protective Waterproof plastering with 20mm thick double layer waterproof plastering using CM 1:4 with added integral waterproof chemicals manufactured by M/s. Fosroc, and finishing the top with Smooth cement slurry, curing etc. complete all as specified and directed by Engineer-in-charge. Note: The rate quoted is deemed to include for providing and removal of scaffolding/staging wherever necessary.	sqm	60.00		

Sl. No	Description	Unit	Qty	Rate/unit in fig. & in words Rs.	Amount (Rs)
8	Supplying, and fixing in position 24 gauge GI chicken wire mesh to the floor and walls including all laps, cutting and wastages etc., complete all as specified and directed by engineer in charge.	Sqm	60.00		
9	Providing and Applying water based solvent free epoxy resin protective water proofing coating comprising of Primer +Seal coats of Food Grade Epoxy Waterproof coating manufactured by M/s. Fosroc/ Roff, using suitable Brush/Roller, etc complete all as specified and directed by Engineer in charge.	Sqm	60.00		
10	Supplying and fixing in position Pre-cast/cast in situ RCC manholes cover with MS frame and handle of approximate size 900x900x100mm, heavy duty including formwork for cast-in-situ work etc complete all as specified and directed by Engineer in charge.	Nos.	1.00		
11	Supplying and fixing of PVC rungs in the RCC water sump firmly etc., complete including all necessary hardware/ accessories all as specified and directed by Engineer in charge..	Nos.	15.00		
12	Providing & laying in position TMT bars (Fe 500 grade) in reinforcement conforming to relevant IS in various diameters for various locations & levels as shown in drawing, cut to length and bent to shape required, binding spirally with MS wire (annealed) of size not less than 0.9 mm diameter including all lead, lift, etc., complete all as specified and directed by Engineer in charge. NOTE: a) The rate quoted by the Contractor for the item is deemed to include for cement mortar cover blocks as per the requirement at site and providing and removal of scaffolding/staging wherever necessary. b) Reinforcement will be measured based on actual qty placed in position on standard weight basis, no allowance will be made for rolling margin. c) Only authorized laps, chairs and spacers shall be measured and paid.	KGS	1300.00		
13	Providing and fixing in position automatic filter of M/s. Rainy brand RWH FL500 FL 500 with necessary accessories etc complete all as specified and directed by engineer in charge and as per the Manufacturer's instruction.	Nos.	3.00		
14	Providing & fixing 110mm diameter 6kg/cm2 PVC pipes manufactured by M/s. Supreme/ Astral conforming to relevant IS for sanitary, waste water, laid in gradient in walls/floors including all standard PVC fittings like elbows, bends, Tees, tail pieces & fixtures such as pipe clips, PVC clamps wooden plug, screws, washers etc., fixed/ secured firmly etc., complete all as specified and directed by Engineer in charge. Note: The rate quoted is deemed to include for providing and removal of scaffolding/staging wherever necessary.	Rmt	150.00		
15	Supplying and Laying the 20mm diameter, heavy grade CPVC water tubing manufactured by M/s.Supreme/Astral/Ashirwad, laid in required length/gradient in walls, flooring / trenches including all standard CPVC fittings such as elbows, collars, Tees, MTA, FTA, gate valve, PVC Clamps including cutting & making good the floor/walls with cement mortar wherever necessary etc., complete all as specified and directed by Engineer-in-charge. Note: The rate quoted is deemed to include for providing and removal of scaffolding/staging wherever necessary.	Rmt	30.00		
16	Providing and fixing in position M/s. Texmo make 2 HP motor pump along with complete necessary electrical connections viz., suitable wiring, switches, socket, starter box, etc., complete all as specified and directed by engineer in charge.	Job	1.00		
17	Supplying & fixing PVC Air vent cowl 110 mm diameter including all bends, fittings & fixtures etc., complete all as specified and as directed by Engineer in charge.	Nos.	2.00		

Sl. No	Description	Unit	Qty	Rate/unit in fig. & in words Rs.	Amount (Rs)
	<b>Total value of work excluding GST (Rs).</b>				
	<b>GST (Rs).</b>				
	<b>Total value of work inclusive of GST (Rs)</b>				

(Total Amount in words Rupees.....  
.....)

Signature of the Contractor with seal