

BEML LIMITED, BANGALORE COMPLEX							
Sub: Providing interlocking concrete pavers at open ground at BEML Township, Bangalore Complex, Bangalore.							
Sl. No	Description	Unit	Qty.	Amount in Rs.			
1	Surface excavation by mechanical/manual means averaging 30cm deep approximately 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.	Sqm	1150.00				
2	Earthwork excavation by mechanical/ manual means in foundation trenches, pits as per the desired slope, not exceeding 1.50m in width and not exceeding 1.50m in depth in all kinds of soil but excluding hard rock including getting out the excavated earth, dressing of sides, dewatering ground water/ rain water, compaction including disposal of debris/unserviceable surplus earth outside the site premises to a distance not exceeding 5.0KM which is not objected by any civic authorities etc., complete all as specified and directed by Engineer in charge. Note: The contractor shall survey / study and assess the available/ natural slope and topography of the area of work, and the slope of the new drain shall be planned in accordance to the natural slope. The rate quoted is deemed to include for the same.	Cum	35				
3	Providing and laying wet mix of 40mm down graded granite aggregate/ road gravel with dust of required thickness in layers and compacting each layer etc., complete all as specified and directed by engineer in charge. Note: The rate for compaction will be paid separately under relevant item	Cum	220.00				
4	Rolling and compacting surfaces using 3 to 5 tonne power plate compactor including watering as necessary and consolidating to the required level, gradient or camber, keeping roller wheels wet, filling in hollows/ depressions wherever required with suitable material including consummables, labour, tools, to achiev a proper density etc. complete all as specified and directed by engineer in charge. (Approximate area to be rolled = 1200 sqm)	Sqm	1200.00				
5	Providing, spreading and laying in layers 50mm thick, M-sand including consolidation and well ramming, watering as required etc., complete all as specified and directed by engineer in charge.	Cum	60.00				

6	<p>Providing and laying firmly in position 60mm thick precast concrete interlocking pavers of M30 grade of approved shape viz., zig zag/square/I section and approved colour of brands viz., Om Shakti Pavers / Icon Pavers/PSP pavers or equivalent brand laid as per approved design / pattern on the ground as per the directions of engineer in charge and compacting using plate vibrator of 3.5T capacity including cutting edges if required etc., complete all as specified and directed by Engineer in Charge.</p> <p>Note: 1. The edges of the pavers around the periphery shall be firmly fixed with PCC of required mix to prevent the uplift of the pavers. The rate quoted for the item is deemed to include for the same.</p> <p>2. The Contractor shall note that each batch of the tiles supplied at site during execution shall be tested in a reputed laboratory for the compressive strength, thickness, water absorption test, abrasion resistance as per relevant IS. The rate quoted for the item is deemed to include for carrying out the relevant tests and submission of the reports to BEML.</p>	Sqm	1150.00				
7	Providing and laying Plain Cement Concrete of mix proportion 1:2:4 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.	Cum	20.00				
8	Providing and laying 20mm graded granite aggregate etc., complete all as specified and directed by engineer in charge.	Cum	20				
9	Providing and constructing size stone masonry in cement mortar 1:6 for foundations with courses not less than 20cms height and providing bond stones at every 1.5mtrs apart in each course including chisel dressing and curing etc, complete all as specified and directed by engineer in charge.	Cum	40.00				
10	Providing flush pointing to the exposed surfaces of the size stone masonry in Cement Mortar 1:3 etc., complete all as specified and directed by engineer in charge.	sqm	120.00				
11	Providing & fixing 110mm diameter 6kg/cm ² PVC pipes manufactured by M/s. Supreme/ Astral conforming to relevant IS 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, including making perforations as per requirement 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	100.00				
12	Removal of existing old MS barbed wire carefully and stacking at a place all as shown etc., complete all as specified and directed by engineer in charge.	Per job	1				
13	Supplying & fixing 15mm diameter brass chromium bib cock of first quality approved brand manufactured by M/s.ESS ESS /Parryware/Hindware/Johnson or equivalent make including all accessories conforming to relevant IS etc., complete all as specified & directed by the Engineer in charge.	Nos	2.00				

14	Supplying and fixing 15 mm diameter brass chromium plated angle/ Stop cock of first quality manufactured by M/s.ESS ESS /Parryware/Johnson/ Hindware or equivalent make including all accessories conforming to relevant IS etc., complete all as specified and directed by Engineer in charge.	No	2.00			
15	Supplying and Laying the 20mm diameter, heavy grade CPVC water tubing manufactured by M/s.Supreme/Astral/Ashirwad/equivalent approved make, laid in required length/gradient in walls, flooring & trenches including all standard CPVC fittings such as elbows, collars, Tees, MTA, FTA, 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	100.00			
16	Providing and laying in Position Plain cement concrete of mix proportion 1:4:8 using stone aggregate of 40mm down graded granite aggregate, laid in layers not exceeding 15cms well compacted for foundation bed, under floors and other similar works including curing etc.,complete all as specified and as directed by Engineer in charge. Note: The rate quoted for the item shall be deemed to include for providing and removal of centering/shuttering wherever necessary.	Cum	90.00			
17	Supplying, Fabricating, hoisting and erecting in position MS Structural steel for columns/ supports etc., using MS Structural steel sections viz., tubes, channels, plates, angles, cleats, flats, foundation bolts, etc., of required size, and fixing to correct line & level including cutting, welding, bending to required shape, cleaning the rust and scales, shims & packing pieces required for erection at all elevation heights & levels , including a coat of primer and 02 coats of synthetic enamel paint of approved colour of M/s. Asian/ Berger etc., complete all as specified and as directed by Engineer in charge. Note: a) The rate quoted is deemed to include for labour, welding machine, consummables viz., welding rods, gas etc. b) The rate quoted is deemed to include for scaffolding, staging/ladder & providing safety nets wherever necessary and protective measures etc. c) All steel members shall have ISI mark and shall be endorsed with "Manufacturer lab test certificate"	Kgs	500.00			
18	Excavating post holes in any kind of soil/rock and getting out, ramming bottom surface, watering and removing surplus soil including disposal of unserviceable material / debris outside the site premises to a distance not exceeding 5.0KM which is not objected by any local civic authorities etc., complete all as specified and as directed by Engineer in charge. Note: The debris shall be removed immediately from the premises without disturbing the regular public / traffic movement on the road and the quoted rate is deemed to include for all lead & lift etc	Nos	12.00			

19	Supply & Installation of Street light poles, 4 mtrs long, made of GI material, conical type, with base plate/anchor plate and inbuilt connector box with door cover. The poles shall be fixed / erected by making earth excavation of required depth, providing steel reinforcement, foundation bolts, RCC foundation and making surface finish etc., complete all as specified and as directed by Engineer in charge..	No's	12.00				
20	Supply & installation of 100 watts, LED flood light fixtures, outdoor type. All required accessories and hardwares such as MS clamps, bolts nuts, washers etc... required for fixing LED flood lights is in contractor's scope etc., complete all as specified and as directed by Engineer in charge.	No's	15.00				
21	Supply, laying and terminations of 1100 V grade, Ariel Bundled (AB) cables of size - 3Cx16+1Cx25 insulated messenger cum neutral wire with all required accessories and hardwares such as cross arms, anchor clamps, hooks, piercing connectors etc... complete all as specified and as directed by Engineer in charge.	Mtrs	200.00				
22	Supply, laying and end terminations of 1100 V grade, 4core x 16 sqmm, Aluminium armoured XLPE UG cable in soft soil, hard concrete by making earth excavation to a depth of 0.5 meters, finishing the floor to as-is-basis condition etc., complete all as specified and as directed by Engineer in charge.	Mtrs	100.00				
23	Supply and fixing Single phase MCB DB comprising the following: i) Incomer - 25 Amps, 2 pole, MCB, C-curve - 01 No. Outgoings - 16 Amps, 2 pole, MCB, C-curve- 04 No's etc., complete all as specified and as directed by Engineer in charge.	No.	1.00				
Total value of work excluding GST (Rs).							
GST (Rs).							
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