

ISSUED TO:	Period of contract:	THREE (03) MONTHS
	EMD :	Rs.29,080/-

**Sub: Proposed Construction of Storm water drain from BEMEA Office building to IP Gate & connecting to the main storm water drain & providing face-lift to BEMEA building by removing the existing ornamental grill & re-fixing on RCC beam at BEML Ltd, Bangalore Complex, Bangalore-560075.**

#### SCHEDULE 'A' - BILL OF QUANTITIES

Sl. no	Description	Unit	Qty.	Rate/ unit in fig. & in words Rs.	Amount. Rs.
1	Demolition/dismantling the existing cement concrete flooring/hard standing concrete in any description and in any position not otherwise specifically provided for, stacking of serviceable materials and disposal of unserviceable materials from the premises etc., complete all as specified and directed by Engineer in charge. <b>Note:</b> The dismantled materials should be removed immediately from the premises without disturbing the regular production activities and the quoted rate is deemed to include for all lead & lift etc.	Cu.M	29		
2	Dismantling the existing damaged size stone foundation, drain side walls built in cement mortar, stacking of serviceable good quality size stones at a place shown for re-using the same in work and disposal of debris etc complete all as specified and directed by the Engineer-in charge	Cu.M	48		
3	Dismantling the existing MS structural steel gratings laid over the storm water drains & ornamental grill of compound, stacking at a place shown and handing over to civil maintenance dept. etc., complete all as specified and directed by the Engineer-in-charge	Kgs	3000		
4	Earthwork excavation by mechanical/ manual means in foundation trenches, pits not exceeding 1.50m in width and not exceeding 1.50m in depth and not exceeding 10 sqm on plan in all kinds of soil but excluding hard rock including getting out the excavated earth, dressing of sides, dewatering ground water/ rain water, compaction etc., complete all as specified and directed by Engineer in charge.	Cum	120		
5	Providing and laying in Position Plain cement concrete of mix proportion 1:4:8 using 40mm down graded granite aggregate, laid in layers not exceeding 15cms thick, well compacted for foundation bed, under floors and other similar works including curing, tools & tackles, plant & machinery etc.,complete all as specified and directed by Engineer in charge.	Cu.M	13		

Sl. no	Description	Unit	Qty.	Rate/ unit in fig. & in words Rs.	Amount. Rs.
6	Providing TMT bars (Fe 500 grade) in reinforcement conforming to relevant IS in various diameter for various location & levels, cut to length & bent to required shape, binding spirally with MS wire (annealed) of size not less than 0.9mm dia and placing in position including all lead, lift, labour, tools & tackles, plants & machinery etc complete all as specified and as directed by Engineer in charge. <b>Note:</b> a) The rate quoted for the item is deemed to include for cement mortar cover blocks as per the requirement at site. b) Reinforcement will be measured based on actual qty placed in position on standard weight basis & no allowance shall be made for rolling margin c) only authorised laps, chairs & spacers will be measured & paid.	Kgs	2000		
7	Providing and laying in position Reinforced Cement Concrete M20 grade in mix proportion 1:1.5:3 for drain side walls, bottom slab using 20mm down graded granite aggregates, mechanical mixing, and placing at all levels, vibrating, consolidating, curing, dewatering wherever necessary, cost of all materials, labours, 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.	Cum	42		
8	Providing, erecting and removal of leak proof formwork for RCC drain wall, bottom slabs etc (Centring and shuttering including strutting, propping etc) using MS/plywood, conforming to relevant IS with necessary wooden formwork supports, metal propping, MS pipe ties, bracings, staging, applying of chemical releasing agent to MS/plwood surfaces to avoid sticking of cement so as to have a smooth finish at all levels while casting the concrete member of any shape, size and thickness etc complete all as specified and directed by Engineer-in-charge.	Sq.M	230		
9	Providing and laying in Position Plain cement concrete of mix proportion 1:2:4 for <b>coping</b> /similar works for compound using 20mm down graded granite aggregate, well compacted, finished fairly even including tools & tackles, plant & machinery, incidental charges, 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	5		
10	Providing and laying in position Plain cement concrete of mix proportion 1:2:4 using 20mm down graded granite aggregate, <b>for hard standing concrete</b> , 150mm thick for paving in chess board type pattern wherever required, finishing with wooden float, laid in layers, well compacted, machine mixed, including curing, providing & removal of centering / shuttering if required as per site conditions, finishing the surface smooth & even etc., complete all as specified and as directed by Engineer in charge.	Sqm	175		

Sl. no	Description	Unit	Qty.	Rate/ unit in fig. & in words Rs.	Amount. Rs.
11	Grubbing up tree trunk/roots of girth exceeding 30cm including cutting, digging out roots, filling holes, levelling off ground, stacking of serviceable materials & disposal of unserviceable materials to a distance not exceeding 50Mts apart & clearing the site etc., complete all as specified and as directed by Engineer in charge.	Each	20		
12	Providing & constructing size stone masonry in CM 1:6 using approved quality of size stones,well bonded at every 1.5 Mtrs apart solidly hearted each course well levelled, interstices filled etc.,complete all as specified and as directed by Engineer in charge. Note: a) The rate quoted is deemed to include for dressing of all the stones & corner stones	Cu.M	32		
13	Providing & constructing size stone masonry in CM 1:6 using available size stones, well bonded at every 1.5 Mtrs apart solidly hearted each course well levelled,interstices filled etc.,complete all as specified and as directed by Engineer in charge.	Cu.M	16		
14	Providing and laying RCC for precast slabs of mix proportion 1:2:4 over drains using 20mm down graded granite aggregate, well compacted, finished fairly smooth & even including tools & tackles, plant & machinery, incidental charges, curing etc.,complete all as specified and as directed by Engineer in charge. <b>Note:</b> The rate quoted for the item shall be deemed to include for providing and removal of centering/shuttering as required for work	Cu.M	3		
15	Supplying fabricating and fixing MS structural steel gratings over RCC drains using MS Structural steel like ISMB, ISMC, MS plates, angles & flats including cutting, welding, bending to required shape, cleaning the rust and scales to the satisfaction of Engineer in charge, erection at all elevations & applying a coat of red oxideprimer etc.,complete all as specified and as directed by Engineer in charge. <b>Note:</b> The quoted rate is deemed to include for material, labour, welding machines, gas, welding electrodes & all consumables required for the work	Kgs	927		
16	Fabricating, hoisting and erecting in position MS Structural steel frame work for Fencing, ornamental grill work using available MS grills etc., including cutting, welding, to required shape bolting, cleaning the rust and scales to the satisfaction of engineer in charge, shims & packing pieces will be required for levelling of the work, erection at all elevations, levels & heights etc.,complete all as specified and as directed by engineer in charge. <b>Note:</b> a) The required qty of MS structural steel/Ornamental grill materials will be supplied by BEML. b) The rate quoted for the item shall deemed to include for providing and removal of scaffolding/stagging wherever necessary.c) The contractor quoted rate is deemed to include for labour, welding machine, welding rods, gas, all consumables etc., d) The quoted rate of the contractor is deemed to include for seggregating, lifting, aranging vehicle for shifting the available scrap materials like MS channels,angles, plates etc., to the work site	Kgs	2500		

Sl. no	Description	Unit	Qty.	Rate/ unit in fig. & in words Rs.	Amount. Rs.
17	Removing the existing RCC Slabs set in cement mortar / cement concrete flooring/ hard standing in any position by trimming surface/enlarging the joints and stacking the slabs at a place shown & Refixing back in the same position including setting/pointing in CM1:4, neatly finished to match with the adjoining drain slabs, set in line with the existing floor surface.hardstanding concrete etc., complete all as specified and as directed by Engineer in charge.	Cum	6		
18	Providing struck pointing to the stone masonry wall surfaces in CM 1:4 including tools & tackles etc., complete all as specified and directed by the Engineer in charge	Sq.M	50		
19	Rendering/Plastering 15mm thick in cement mortar 1:4 on fair faces of brick or concrete surfaces including curing and finishing the surface smooth & even without using extra lime and cement tools & tackles etc., complete as specified and directed by Engineer in charge.	Sq.M	40.00		
20	Returning & filling the available earth in plinth, trenches, pits, foundations or around plinth with approved earth of non swelling type, free from organic materials, consolidating in layers of not more than 200mm thickness including watering, compaction, etc complete all as specified and as directed by Engineer in charge. <b>Note:</b> Net consolidated volume only shall be measured for payment purposes	Cum	63		
21	Carting away unwanted and unusable excavated soil,debris & dumping at a place shown inside factory to a distance not exceeding 5.0KM including all lead and lift, transportation etc., complete all as specified and as directed by Engineer in charge.	Cum	85		
<b>Note:- The rate quoted for all the above items is deemed to include for providing and removal of scaffolding/staging wherever necessary as per site conditions</b>					
	Total value of work excluding GST (Rs)			Rs.	
	GST Amount			Rs.	
	<b>Total Value of work inclusive of GST</b>			Rs.	

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

SIGNATURE OF THE CONTRACTOR WITH SEAL