

BEML LIMITED BANGALORE

TENDER NO: 6300033893		Date: 19.08.2020	
ISSUED TO:	Period of contract:	03 Months	
	EMD :	Rs. 25,580/-	
Sub:Proposed civil works for the new Pipe Bending & Module Sub Assembly (Air Brake) at western side of Tatra stores in BEML Limited, Bangalore complex, Bangalore.-75.			

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. Note: 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	3		
2	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.	Cu.M	6		
3	Providing and laying in Position Plain cement concrete of Mix proportion 1:4:8 using 40mm down graded granite aggregate, for foundation/drain bed, under floors and other similar works including curing etc.,complete all as specified and as directed by the Engineer in charge.	Cu.M	2		
4	Providing and constructing brick masonry superstructure wall of 230mm thick/required thickness wall at all levels, in CM 1:6 using first class table moulded bricks including tools & tackles, curing etc., complete all as specified & directed by Engineer in charge.	Cu.M	28		
5	Providing and laying in position reinforced Cement Concrete in mix proportion 1:2:4 for beams / similar works using 20mm down graded granite aggregates, mechanical mixing and placing at all levels, vibrating, consolidating, curing and finishing including form work,centering/shuttering if required and lead, lift, tools, plant & machinery, hire & fuel charges & all other other incidental charges etc.,complete all as specified and as directed by Engineer in charge.	Cu.M	4		

Sl. No	Description	Unit	Qty	Rate/unit in fig. & in words Rs.	Amount (Rs)
6	Providing 15mm thick plastering in cement mortar 1:6 for internal wall surface of brick/ concrete surface finishing the surface smooth and even using a thin coat of lime rendering, racking joints hacking the concrete surfaces and curing at all levels and heights etc., complete all as specified and directed by Engineer in charge. Note:- The rate quoted for the item shall deemed to include for providing and removal of scaffolding/staging wherever necessary.	Sq.M	265		
7	Providing TMT bars (Fe 500 grade) in reinforcement conforming to relevant IS in various diameter for various location & at all 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, plant & machinery etc complete all as specified and directed by Engineer in Charge. Note: a) Reinforcement shall be measured based on actual quantity placed in position on standard weight basis and no allowance shall be made for rolling margin. b) Only authorised laps, chairs & spacers shall be measured & paid.	Kgs.	300		
8	Providing and laying in position Plain cement concrete of mix proportion 1:2:4 using 20mm down graded granite aggregate, for hard standing concrete, 150mm thick , well compacted, 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.	Sq.M	10		
9	Carting away unwanted and unusable excavated soil, debris outside the site premises to a distance not exceeding 5KM including transportation, all lead and lift etc complete all as specified and directed by Engineer-in-charge. Note:-The measurement shall be made after deducting the filling quantities from excavated quantities.	Cu.M	9		
10	Preparing the newly plastered surface of internal walls by scrapping and cleaning the surface from dust, dirt and filling/closing the cracks with crack filling compound and applying two coats of Premium Plastic emulsion paint of first quality, approved colour manufactured by M/s.Asian Paints/Berger paints over a coat of primer and full putty etc., complete all as specified and as directed by Engineer in charge. Note.Contractors quoted rate is deemed to include for providing and removal of scaffolding/staging for painting.	Sq.M	265		

Sl. No	Description	Unit	Qty	Rate/unit in fig. & in words Rs.	Amount (Rs)
11	Preparing the existing old Painted surface of internal walls by scrapping, sand papering, including necessary repairs to cracks, scratches and cleaning the surface from dust, dirt and filling/closing the cracks with crack filling compound and applying putty & applying two coats of Premium Plastic emulsion paint of first quality, approved colour manufactured by M/s.Asian Paints/Berger paints etc., complete all as specified and as directed by Engineer in charge. Note.Contractor's quoted rate is deemed to include for providing and removal of scaffolding/staging for painting.	Sq.m	250		
12	Roughening surface of old concrete surface by hacking, sweeping, clean and washing down with clean water and remove dust,brushing neat cement slurry with 3.0Kg of cement per Sq.M, to receive new concrete etc complete all as specified and as directed by Engineer in charge.	Sq.M	225		
13	Rendering 15mm thick in CM 1:4 on brick or concrete surfaces of walls with a floating coat as required for surfaces and finishing the surface smooth & even, neeru finish using extra cement etc.,complete all as specified and directed by Engineer in charge.	Sq.M	225		
14	Supplying, Fabricating, hoisting and erecting in position MS Structural steel frame works for roof truss, purlins using MS Structural steel like channels, plates, angles & flats including cutting, welding, bending 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, for erection at all elevations, levels & heights etc.,complete all as specified and directed by Engineer in charge. Note: a) The rate quoted for the item shall deemed to include for providing and removal of scaffolding/staging wherever necessary. b) The contractor quoted rate is deemed to include for labour, welding machine, welding rods, gas etc.	MT	3		
15	Supplying fixing & installation of M/s. JSW/TATA make single skin HI-Rib trapezoidal profile PPGL colour coated (sky blue/approved colour) sheeting 1060mm supply width, minimum 1000mm covered width 29mm-30mm crest height, 24mm crest width with 195-200mm pitch in 0.50mm thick TCT at required length (55% aluminum-43%Zinic Coating) 150 GSM with 550 Mpa minimum tensile strength conforming to IS277, Alloy Coated conforming to AS 1397 for wall cladding etc inclusive of all transportation charges, taxes & levies, & including all fixtures like colour matched nylon head self tapping corrosion protected mechanically galvanized fasteners with integral washer etc , complete all as specified and as directed by Engineer in charge. Note: The finished/covered sheet area excluding lap only shall be measured and paid.	Sq.M	225		

Sl. No	Description	Unit	Qty	Rate/unit in fig. & in words Rs.	Amount (Rs)
16	Preparing the existing old concrete surface by scarification removing all loose materials, oil grease, moisture, grinding the floor, cleaning and applying a coat of primer with 3mm thick high build epoxy screed for floor surface and fill up the holes, dents with epoxy materials to get a level surface the application should be carried as per the standard specification and manufacturers instruction in specified color and pattern etc., complete all as specified & directed by Engineer-in-charge.	Sq.M	225		
17	Preparing the epoxy screed surface by grinding the surface remove dust and applying two coats of high build epoxy resin of 500 microns. The application should be carried as per the standard specification and manufacturers instruction in specified color and pattern etc., complete all as specified & directed by Engineer-in-charge.	Sq.M	225		
NOTE: THE RATE QUOTED FOR ALL THE ABOVE ITEMS IS DEEMED TO INCLUDE FOR PROVIDING AND REMOVAL OF SCAFFOLDING/STAGING AS REQUIRED AT SITE					
	Total Value of work excluding GST/Taxes (Rs)			Rs.	
	GST/Taxes			Rs.	
	Total Value of work inclusive of GST			Rs.	

Total Amount in words Rupees _____

Signature of the Contractor
with seal