

**BEML LIMITED, BANGALORE**

**TENDER REF: 6300038522**

**Date: 19.08.2023**

ISSUED TO:	Period of contract:	Five Months (05 Months)
	EMD :	Rs. 1,00,000/-

**Sub: Providing new Standard Gauge Rail for the existing track No.4 in Delivery Hangar, at Bangalore Complex, BEML Limited, Bangalore.**

**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/hardstanding concrete of any description and in any position not otherwise specifically provided etc and stacking of serviceable materials if any and disposal of unusable materials or debris outside the site premises to a distance not exceeding 5.0 KM not objected by local civic authorities including lead ,lift etc,complete all as specified and directed by Engineer in charge. <b>Note:</b> The dismantled materials shall be removed immediately from the premises without disturbing the regular production activities .	Cu.M	12.00		
2	Dismantling the existing IU rails carefully without damaging the same together with all accessories, clamps plates, bolts etc.,cleaning and stacking at a place as shown etc.,complete all as specified and directed by Engineer in charge.	Kgs	12000.00		
3	Dismantling the existing cast iron bearing plates with all accessories, clamps, plates, bolts etc., carefully laid over the existing rails without breaking and stacking at a place as shown etc.,cleaning and stacking at a place as shown etc.,complete all as specified and directed by Engineer in charge.	Kgs	21500.00		
4	Earthwork excavation by mechanical/ manual means in foundation trenches, pits not exceeding 1.50m in depth in all kinds of soil including getting out the excavated earth, 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.	Cu.M	220.00		
5	Providing and laying in Position Plain Cement Concrete M10 grade 1:3:6 using 40mm graded down size granite aggregate, machine mixed, 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. <b>Note:</b> The rate quoted for the item is deemed to include for providing and removal of form work/centering/shuttering wherever necessary.	Cu.M	35.00		

Sl. No	Description	Unit	Qty	Rate/unit in fig. & in words Rs.	Amount (Rs)
6	Providing & laying in position Fe 500 grade TMT bars in reinforcement conforming to relevant IS in various diameters, locations & levels, cut to length and bent to shape required, binding spirally with MS wire (annealed) of size not less than 0.9 mm dia including all lead, lift, etc., complete all as specified and directed by Engineer in charge. <b>NOTE: a)</b> The rate quoted 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>b)</b> Reinforcement will be measured based on actual quantity placed in position on standard weight basis, no allowance will be made for rolling margin. <b>c)</b> Only authorized laps, chairs and spacers shall be measured and paid.	Kgs.	3750.00		
7	Providing, and laying in position Reinforced Cement Concrete M25 grade 1:1:2, using 20mm graded down size granite aggregate machine mixed for Beams,etc complete including curing, vibrating, compacting, finishing,dewatering wherever necessary including lead, lift etc., complete all as specified and directed by Engineer in charge. <b>Note:</b> a) Reinforcement shall be measured and paid separately under relevant item. b) The rate quoted for the item is deemed to include for providing and removal of form work/centering/shuttering wherever necessary.	Cu.M	65.00		
8	Supplying ,fixing in position 16mm diameter MS foundation bolts of minimum 450mm length including threading of required length, welding, drilling suitably including neccessary hardware items , bolts, nuts, washers of required size and diameter for holding of rails and welding the bolts to the reinforcement to the correct line and level etc., complete all as specified and directed by Engineer in charge.	Kgs.	750.00		
9	Supplying, fabricating, hoisting and erecting in position MS Structural steel viz., channels, plates, angles, cleats, fixing to correct line & level including cutting, welding, bending to required shape, shims & packing pieces as required for levelling of the work, etc.,complete all as specified and as directed by engineer in charge. <b>Note:</b> The rate quoted for the item is deemed to include for welding machine, welding rods, gas, consumables etc.	Kgs.	3200.00		
10	Supplying,Laying & aligning the IU Rails on RCC beams, with correct line and level including cutting, welding etc., complete all as specified & directed by the Engineer in charge. <b>Note:-</b> a) The quoted rate is deemed to include for supplying MS cleats for levelling /placing of rails making necessary holes including cutting, fabrication, welding etc., b) The actual length of rails laid shall be measured for the purpose of payment. (c) The rate includes for bending the rails for the curvature portion of the track as per site condition to match with the existing BG/SG rail alignment.	Kgs.	10600.00		

Sl. No	Description	Unit	Qty	Rate/unit in fig. & in words Rs.	Amount (Rs)
11	Laying & aligning the available IU Rails on RCC beams, with correct line and level including cutting, welding etc., complete all as specified & directed by the Engineer in charge. <b>Note:-</b> a) The quoted rate is deemed to include for supplying MS cleats for levelling /placing of rails making necessary holes including cutting, fabrication, welding etc., b) The actual length of rails laid shall be measured for the purpose of payment. c) The required quantity of MS rails will be supplied by BEML Ltd. (d) The rate includes for bending the rails for the curvature portion of the track as per site condition to match with the existing BG/SG rail alignment.	Kgs.	5200.00		
12	Returning & filling the available earth in plinth, trenches, foundations or around plinth with approved good quality earth of non swelling type, free from organic materials, consolidating in layers of not more than 200mm including watering, compaction, etc complete all as specified and directed by Engineer in charge. <b>Note:</b> Net consolidated volume shall be measured for payment puposes.	Cu.M	100.00		
13	Supplying and laying soling of 150mm compacted thickness below floor/foundation with good broken boulders/ soling or quarried stones of 100 to 150mm size laid in layers,well packed to the correct line & level, interstices filled with stone chips, sand or moorum and consolidated including transportation, etc., complete all as specified and as directed by Engineer in charge. <b>Note:</b> For payment consolidated thickness shall be considered.	Sq.M	220.00		
14	Providing and laying in Position Plain cement concrete M15 grade 1:2:4 150mm average thick using 20mm graded down size granite aggregate, machine mixed, laid in layers for hard standing concrete including finishing the top surface even, well compacted including curing, compacting etc.,complete all as specified and directed by Engineer in charge. <b>Note:</b> The rate quoted by the Contractor for the item is deemed to include for providing and removal of form work/centering/shuttering wherever necessary.	Sq.M	220.00		
	<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