

ISSUED TO:	Period of contract:	FOUR MONTHS (04)
	EMD :	Rs. 88,000/-

Sub: Providing Civil works for Track Shifter (1 nos. of 30.60 Mtrs length & width 22.67 Mtrs) at Eastern side of 2A & 2B 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 and disposal of unserviceable materials from the premises with a lead up to 50Mts, etc complete all as specified and directed by Engineer in charge. Note: The dismantled materials shall be removed immediately from the premises without disturbing the regular production activities and the quoted rate shall include for all lead & lift etc.	Cu.M	130		
2	Dismantling the existing Brick masonry wall in any thickness and disposal of unserviceable materials from the premises with a lead up to 50Mts etc., complete all as specified and directed by Engineer in charge. Note: The dismantled materials shall be removed immediately from the premises without disturbing the regular production activities and the quoted rate shall include for all lead & lift etc.	Cu.M	50		
3	Earthwork excavation by mechanical/manual means not exceeding 1.50m in width and not exceeding 1.50m in depth and not exceeding area 10 sqm on plan in all kinds of soil but excluding hard rock for foundation/ pits including getting out the excavated earth, with a lead upto 50 mts, disposal of surplus excavated soil as directed including dressing of sides, dewatering ground water/rain water, compaction etc., complete all as specified and directed by Engineer in charge.	Cu.M	400		
4	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 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 is deemed to include for providing and removal of centering/shuttering wherever necessary.	Cu.M	80		

Sl. no	Description	Unit	Qty.	Rate/ unit in fig. & In words Rs.	Amount. Rs.
5	Providing 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 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) The rate quoted for the item shall deem 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.	MT	2.50		
6	Providing, mixing and laying in position Reinforced Cement Concrete of mix proportion 1:1 1/2:3 of M20 grade using 20mm down graded granite aggregate for raft beams, plinth beams, beams below rails, RCC walls, columns, pedestals, etc complete including curing, Vibrating, compacting, finishing, dewatering wherever necessary and including cost of all materials, labour, lead, lift, tools, plant & machinery, hire & fuel charges and all other incidental charges etc., complete all as specified and directed by Engineer in charge. Note: a) Reinforcement shall be measured and paid separately under relevant item. b) The rate quoted for the item shall be deemed to include for providing and removal of centering/Shuttering wherever necessary.	Cu.M	41		
7	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. Note: Net consolidated volume shall be measured for payment purposes.	Cu.M	25		
8	Providing and laying in Position Plain cement concrete 150mm thick of mix proportion 1:2:4 using 20mm down graded granite aggregate, for hard standing concrete including finishing the top surface laid in layers well compacted including curing, compacting 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.	Sq.M	800		
9	Laying & aligning the available rails on RCC beams, with correct line and level including cutting, welding etc., complete all as specified & directed by the Engineer in charge. Note: -a) The required quantity of MS rails will be supplied by BEML. b) The Contractor's quoted rate includes supplying MS cleats for fixing of rails making necessary holes including cutting, fabrication, welding etc., c) The actual length of rails shall be measured for the purpose of payment. d) The weight of MS plate & cleat shall be measured & paid under the relevant item.	MT	8		

Sl. no	Description	Unit	Qty.	Rate/ unit in fig. & In words Rs.	Amount. Rs.
10	Supplying fabricating and fixing in position MS angle of approved size to the rails as nosing angle, fixing to the correct line and level including cutting, welding, bending to shape including tools, tackles, hardware items etc., complete all specified and directed by the Engineer in charge. Note:The contractor quoted rate shall be deemed to include for material, labour, welding machine,welding rods, gas etc.	MT	3.40		
11	Supplying ,fixing in position MS foundation bolts 16mm diameter. and min. 450mm Length inclusive of threading of required length, welding, machining including nuts & washer of required size and diameter for holding of rails and welding the bolts to the reinforcement to the correct line and level including neccessary hardware items viz., bolts, nuts, washers etc., complete all specified and directed by the Engineer in charge .	Kgs	250		
12	Carting away unwanted and unusable excavated soil outside the site premises to a distance not exceeding 5.0KM, dumping at a place not objected by any civil authorities, including all lead and lift etc., complete all as specified and directed by Engineer in charge in charge. Note: a)The measurements shall be made after deducting the filling quantities from excavated quantities.	Cu.M	545		
13	Rendering/Plastering 15mm thick in Cement Mortar 1:4 on fair faces of brick or concrete surfaces including finishing the surface smooth and even including curing,tools & tackles at all levels and height 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 whever necessary.	Sq.M	100		
14	Preparing the existing old Painted surface of external walls by washing, scrapping the existing surface by sand papering/wire brushing including providing necessary repairs to cracks, and cleaning the surface from dust, dirt and filling/closing the cracks with crack filling compound and applying two coats of exterior emulsion paint of first quality approved brand and colour manufactured by M/s.Asian Paints (ACE)/Berger Paints (Wall Masta) over a coat of primer and touch up putty wherever necessary etc., complete all as specified and directed by engineer in charge. Note. Contractor's quoted rate is deemed to include for providing and removal of scaffolding, staging/suspending jhoola for painting wherever necessary etc.	Sq.M	800		

Sl. no	Description	Unit	Qty.	Rate/ unit in fig. & In words Rs.	Amount. Rs.
15	Supplying & fixing M/s. JSW/TATA make single skin HI-Rib trapezoidal profile PPGL colour coated (sky blue) sheeting for roof 1060mm supply width, 975mm-1000mm covered width 29mm-30mm crest height, 24mm crest width with min. 195mm-200mm pitch in 0.60mm thick TCT Galvalume(55% aluminum-43%Zinc Coating) 150 GSM with 550 Mpa minimum tensile strength conforming to IS277, Alloy Coated conforming to As 1397 inclusive of all taxes & duties, transportation etc including all hardware/fixtures like colour matched nylon head self tapping corrosion protected mechanically galvanised fasteners with integral washer etc , complete all as specified and as directed by Engineer in charge. Note:- Clear area of roof sheet excluding lap length shall be measured for payment.	Sq.M	70		
16	Providing & fixing 150mm diameter 6kg/cm2 PVC pipes manufactured by M/s.Supreme/ Astral or equivalent 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.	RM	40		
Note: - 1) the rate quoted for all the above items is deemed to include for providing and removal of scaffolding/ staging as required for execution of the work under the relevant item.					
2) Interested bidders/ contractors are requested to visit the site and acquaint themselves with the site conditions before submission of their quote.					
	Total value of work excluding GST			Rs.	
	GST			Rs.	
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(Total Amount in words Rupees.....)

Signature of the Contractor with seal