

**BEML LIMITED, BANGALORE COMPLEX.**

Tender Ref: 6300038400

Date:- 25.04.2023

ISSUED TO:	Period of contract:	02 Months
	EMD	Rs. 57,500/-

<b>A</b>	<b><u>Sub:- Civil works for Installation of Grit Blasting Booth system Facility at Bangalore Complex, BEML Limited, Bangalore-560075.</u></b>
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**SCHEDULE 'A' BILL OF QUANTITIES**

SI No.	Item 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 unserviceable materials from the premises with a lead up to 50Mts, etc complete all as specified and directed by Engineer in charge. <b>Note:</b> a)The dismantled materials shall be removed immediately from the premises without disturbing the regular production activities . b) The rate quoted is deemed to include for disposal of debris outside the premises to a distance not exceeding 5.0 KM including lead ,lift etc,complete all as specified and directed by Engineer in charge.	Cu.M	20		
2	Earthwork excavation by mechanical/manual means not exceeding 1.50m in width and not exceeding 1.50m in depth 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. <b>NOTE:</b> a)The dismantled materials shall be removed immediately from the premises without disturbing the regular production activities . b) The rate quoted is deemed to include for disposal of debris after any refilling as per site requirements outside the premises to a distance not exceeding 5.0 KM including lead ,lift etc,complete all as specified and directed by Engineer in charge.	Cu.M	140		
3	Earth work excavation by mechanical means/manual means in foundation trenches exceeding 1.5 Mts in depth & not exceeding 3 mts in depth in all kinds of soil but excluding hard rock for foundations/ pits including getting out the excavated earth and disposal of debris out side the premises to a distance exceeding 1.5m & not exceeding 5km, disposal of surplus excavated soil as directed including dressing of sides, dewatering ground water/rain water, compaction etc.,complete all as specified and as directed by engineer in charge. <b>NOTE:</b> a) The dismantled materials shall be removed immediately from the premises without disturbing the regular production activities . b) The rate quoted is deemed to include for disposal of debris after any refilling as per site requirements outside the premises to a distance not exceeding 5.0 KM including lead ,lift etc,complete all as specified and as directed by engineer in charge.	Cu.M	125		

4	<p>Earthwork excavation by mechanical/ manual means in foundation trenches, pits not exceeding 1.50m in width and not exceeding 1.50m in depth in <b>hard rock</b> for foundation/ pits including getting out the excavated earth and disposal of debris out side the premises to a distance exceeding 1.5m &amp;not exceeding 5km including dressing of sides, dewatering ground water/ rain water, compaction etc., complete all as specified and as directed by Engineer in charge.</p> <p><b>NOTE:</b> a) The dismantled materials shall be removed immediately from the premises without disturbing the regular production activities . b) The rate quoted is deemed to include for disposal of debris outside the premises to a distance not exceeding 5.0 KM including lead ,lift etc,complete all as specified and as directed by Engineer in charge.</p>	Cu.M	85		
5	<p>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.</p> <p><b>Note:</b> The rate quoted is deemed to include for providing and removal of centering/shuttering wherever necessary.</p>	Cu.M	15		
6	<p>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 &amp; machinery, hire &amp; fuel charges etc., complete all as specified and directed by Engineer in charge.</p> <p><b>Note:</b> a) Reinforcement shall be measured and paid separately under relevant item. b) The rate quoted for the item shall deemed to include for providing and removal of centering/Shuttering wherever necessary.</p>	Cu.M	50		
7	<p>Providing and placing in position TMT bars (Fe 500 grade) in reinforcement conforming to relevant IS in various diameters for various locations &amp; 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 including all lead, lift, labour,tools &amp; tackles, plant &amp; machinery etc., complete all as specified and directed by Engineer in charge.</p> <p><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 shall 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.</p>	Kgs.	5000		
8	<p>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 &amp; 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 wherever necessary.</p>	Sq.M	250		

9	Supplying ,Laying & aligning the 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.	MT	1.50		
10	Supplying, Fabricating & Fixing MS plate, including cutting, welding of required size & shape to the steel reinforcement and secured firmly to the correct line and level etc complete. all as specified and directed by the Engineer-in-charge.	Kgs.	900.00		
11	Preparing the steel surfaces by scrapping and cleaning the surface from dust, dirt and applying two coats of synthetic enamel paint of approved colour over a coat of red oxide zinc chromate primer manufactured by M/s.Asian Paints/Berger Paints etc., complete all as specified and as directed by Engineer in charge.	Sq.m	50		
Total Value of work excluding GST (Rs)				Rs.	
GST (Rs)				Rs.	
Total Value of work inclusive of GST				Rs.	

<b>B</b>	<b><u>Sub:- Civil works for Installation of Spray Painting Booth system Facility at Bangalore Complex, BEML Limited, Bangalore-560075.</u></b>
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#### SCHEDULE 'A' BILL OF QUANTITIES

SI No.	Item Description	Unit	Qty	Rate/ Unit in fig. & in Words (Rs)	Amount (Rs)
1	Cutting channels, grooves in the existing cement concrete flooring not exceeding 15cm girth including trimming the surfaces in any description and in any position etc., complete all as specified and as directed by Engineer in charge.	Rmt	30		
2	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 unserviceable materials from the premises with a lead up to 50Mts, etc complete all as specified and directed by Engineer in charge. <b>Note:</b> a)The dismantled materials shall be removed immediately from the premises without disturbing the regular production activities . b) The rate quoted is deemed to include for disposal of debris outside the premises to a distance not exceeding 5.0 Km including lead ,lift etc,complete all as specified and directed by Engineer in charge.	Cu.M	6		

3	<p>Earthwork excavation by mechanical/manual means not exceeding 1.50m in width and not exceeding 1.50m in depth 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.</p> <p><b>Note:</b> a) The dismantled materials shall be removed immediately from the premises without disturbing the regular production activities .</p> <p>b) The rate quoted is deemed to include for disposal of debris after any refilling as per site requirements outside the premises to a distance not exceeding 5.0 Km including lead ,lift etc.,complete all as specified and directed by Engineer in charge.</p>	Cu.M	30		
4	<p>Earthwork excavation by mechanical/ manual means in foundation trenches, pits not exceeding 1.50m in width and not exceeding 1.50m in depth in <b>hard rock</b> for foundation/ pits including getting out the excavated earth and disposal of debris out side the premises to a distance exceeding 1.5m &amp;not exceeding 5km including dressing of sides, dewatering ground water/ rain water, compaction etc., complete all as specified and as directed by Engineer in charge.</p> <p><b>Note:</b> a) The dismantled materials shall be removed immediately from the premises without disturbing the regular production activities .</p> <p>b) The rate quoted is deemed to include for disposal of debris outside the premises to a distance not exceeding 5.0 Km including lead ,lift etc,complete all as specified and as directed by Engineer in charge.</p>	Cu.M	5		
5	<p>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.</p> <p><b>Note:</b> The rate quoted is deemed to include for providing and removal of centering/shuttering wherever necessary.</p>	Cu.M	2		

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 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 shall be deemed to include for providing and removal of centering/Shuttering wherever necessary.	Cu.M	16		
7	Providing and placing in position 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 including all lead, lift, labour, tools & tackles, plant & machinery etc., complete all as specified and 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 and providing and removal of scaffolding/staging wherever necessary b) Reinforcement will be measured based on actual quantity 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.	Kgs.	1000		
8	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. <b>Note:-</b> The rate quoted for the item shall be deemed to include for providing and removal of scaffolding/staging wherever necessary.	Sq.M	50		
Total Value of work excluding GST (Rs)				Rs.	
GST (Rs)				Rs.	
Total Value of work inclusive of GST				Rs.	
GRAND Total Value of work excluding GST (Rs) (A+B)				Rs.	
GRAND Total Value of GST (Rs) (A+B)				Rs.	
GRAND Total Value of work inclusive of GST (A+B)				Rs.	

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

Signature of the Contractor  
with seal