

TENDER REF: 6300037970

Date: - 09.09.2022

ISSUED TO:	PERIOD OF CONTRACT	TWO YEARS (02 YEARS)
	EMD: -	Rs. 40,720/-

Sub:-Maintenance Contract for 2 years for "Repairs/replacement & Maintenance of existing AC/GI/Galvalume roof sheets and associated Civil works in various hangars 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	Removing the existing old broken & damaged corrugated/semi-corrugated Asbestos Cement roof sheet & corrugated/semi-corrugated Asbestos Cement Curves/ridges including 'J/L' bolts, washers carefully from a minimum height of 10Mtrs approximately, and stacking at a place as shown inside the factory premises etc., complete all as specified & directed by the Engineer-in-charge. Note:-a) Clear area of roof sheet/curves fixed in position excluding lap length shall be measured for payment. b) The rate quoted is deemed to include for Providing & removal of scaffolding, staging, safety nets wherever necessary.	Sq.M	750		
2	Removing the existing old damaged/broken corrugated GI roof Sheets including washers all hardware items carefully from a minimum height of 10Mtrs approximately and stacking at a place as shown inside the factory premises etc., complete all as specified & directed by the Engineer-in-charge. Note:-a) Clear area of GI sheet fixed in position excluding lap length shall only be measured for payment. b) The rate quoted is deemed to include for Providing & removal of scaffolding, staging, safety nets wherever necessary.	Sq.M	150		

Sl. no	Description	Unit	Qty.	Rate/ Unit in fig. & in words Rs.	Amount Rs.
3	Refixing back in position the available/slided Asbestos Cement corrugated /semi-corrugated roof sheets by loosening the adjoining sheets and providing & fixing using new hardware items such as J/L bolts, screws, washers at a minimum height of 10Mtrs approximately etc., complete all as specified and as directed by Engineer in charge. Note: a) Clear area of GI sheet fixed in position excluding lap length shall only be measured for payment. b) The rate quoted is deemed to include for Providing & removal of scaffolding, staging, safety nets wherever necessary.	Sq.M	200		
4	Refixing back in position the available/slided GI roof sheets by loosening the adjoining sheets and providing & fixing using new hardware items such as J/L bolts/self tapping screws, washers at a minimum height of 10Mtrs approximately etc., complete all as specified and as directed by Engineer in charge. Note: a) Clear area of GI sheet fixed in position excluding lap length shall only be measured for payment. b) The rate quoted is deemed to include for Providing & removal of scaffolding, staging, safety nets wherever necessary.	Sq.M	150		
5	Supplying and fixing in position new 6mm thick Asbestos Cement corrugated sheets at a minimum height of 10Mtrs approximately of approved quality of M/s Charminar/Swastik/Everest/Equivalent make conforming to relevant IS for roofing/cladding wherever necessary including fixing with new L / J hook bolts of minimum 150mm length galvanised with bitumen washers etc., complete all as specified and directed by Engineer-in-charge. Note:-a) Clear area of roof sheet/curves fixed in position excluding lap length shall be measured for payment. b) The rate quoted is deemed to include for Providing & removal of scaffolding, staging, safety nets wherever necessary.	Sq.M	500		
6	Supplying and fixing in position new corrugated/semi-corrugated Asbestos Cement north light curves at a minimum height of 10Mtrs approximately of approved quality of M/s Charminar/Swastik/Everest/Equivalent make conforming to relevant IS fixed with new L / J hook bolts etc.,complete all as specified and as directed by Engineer in charge. Note:-The rate quoted is deemed to include for Providing & removal of scaffolding, staging, safety nets wherever necessary.	Rmt	150		

Sl. no	Description	Unit	Qty.	Rate/ Unit in fig. & in words Rs.	Amount Rs.
7	Supplying and fixing in position new 0.6mm thick corrugated Galvanised Iron roof sheets at a minimum height of 10Mtrs of approved quality of M/s TATA/Equivalent make conforming to relevant IS fixing using new hardware items such as J/L bolts/self tapping screws, washers at a minimum height of 10Mtrs approximately etc., complete all as specified and as directed by Engineer in charge. Note:-a) Clear area of GI sheet fixed in position excluding lap length shall only be measured for payment. b) The rate quoted is deemed to include for Providing & removal of scaffolding, staging, safety nets wherever necessary.	Sq.M	50		
8	Supplying & fixing in position new rough cast wired glass of 6.0mm thick at a minimum height of 10Mtrs of approved quality conforming to relevant IS and glazing with oil putty, glazing clips/bars and required hardware tools & tackles and fixed firmly to the frames etc., complete all as specified and as directed by Engineer in charge. Note: The rate quoted is deemed to include for Providing & removal of scaffolding, staging, safety nets wherever necessary.	Sq.m	75		
9	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 with a minimum lap of 200mm with wide pans with stiffening ribs for efficient water shedding & special male/female ends with full return leg on one lap for purlin, conforming to relevant IS 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:- a) The finished/Covered area of roof sheet excluding lap length shall be measured for payment. b) The rate quoted is deemed to include for Providing & removal of scaffolding, staging, safety nets wherever necessary.	Sq.M	50		

Sl. no	Description	Unit	Qty.	Rate/ Unit in fig. & in words Rs.	Amount Rs.
10	Providing & fixing 150mm diameter 6kg/cm <sup>2</sup> PVC pipe Fittings/Fixtures such as elbows, bends, tees, Shoes, Collars etc., manufactured by M/s. Supreme/ Astral or equivalent conforming to relevant IS for fixing to existing rain water downtake pipe & fixed using suitable adhesive, hardware items viz., screws, wooden plug etc., complete all as specified and directed by Engineer in charge. Note: The rate quoted for the item deemed to include for Providing & removal of scaffolding, staging, safety nets wherever necessary etc.	Nos	50		
11	Taking down the existing AC/CI/PVC rain water pipes of any diameter including all fittings and Providing & fixing 150mm diameter 6kg/cm <sup>2</sup> PVC pipes manufactured by M/s. Supreme/ Astral or equivalent conforming to relevant IS for rain water downtake laid in gradient in walls including all standard PVC Fittings like elbows, bends, tees, PVC Shoe, 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 for the item deemed to include for Providing & removal of scaffolding, staging, safety nets wherever necessary etc.	Rmt	300		
12	Cleaning the existing rain water gutters of any size & description inside hangar at a minimum height of 10Mtrs, removing the muck, mud, debris to ensure free flow of rain water etc., complete all as specified and directed by Engineer-in-charge. Note: a) The effective length of the gutter cleaned shall be measured for payment. b) The rate quoted for the item deemed to include for Providing & removal of scaffolding, staging, safety nets wherever necessary etc.	Rmt	1000		
13	Carting away the damaged roof sheets, curves, debris, muck, broken glasses etc and dumping at a place shown outside the factory within a lead not exceeding 5.00Km etc., complete all as specified & directed by the Engineer-in-charge.	Cum	40		
	Total Amount excluding GST (Rs)				
	GST Amount (Rs)				
	Total Amount inclusive of GST (Rs)				

Total Amount in words: -

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Sl. no	Description	Unit	Qty.	Rate/ Unit in fig. & in words Rs.	Amount Rs.
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THE FOLLOWING NOTES ARE APPLICABLE FOR ALL THE ABOVE MENTIONED ITEMS OF WORK

1) The contractor's quoted rate is deemed to include for providing and removal of scaffolding/ staging/safety nets as required for all the above mentioned works.

2) The contractors/ prospective bidders shall visit the site and acquaint themselves with the site conditions before submission of bid/ quote.

3) The contractor to note that the dismantled materials shall be removed and shifted immediately from the site premises without disturbing the regular production activities in the area and in the adjoining hanger and the rate is deemed to include for the same.

4) As the work has to be carried out at a minimum height of 10.0 Mtrs, it is responsibility of the contractor to provide all safety / PPE for the labour/ workmen employed for the work and the work to be carried out after obtaining necessary safety permit as per BEML format for the days work.

5) The work has to be carried out on a day to day basis by the contractor under the supervision of the contractor himself or under the supervision of a qualified technical personnel employed by the contractor till the completion of the days work.

Signature of the contractor  
with seal