

BEML LIMITED, BANGALORE

Tender Ref: 6300038615		Date: 11.11.2023	
ISSUED TO:		Period of contract:	Six Months (06 Months)
		Defect Liability Period	Five (05) Years
		EMD :	Rs. 57,490/-

Sub: Providing waterproofing treatment to existing rain water Gutters inside 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	Cleaning the existing rain water Gutters inside the hangars at various heights (10m to 14 m approximately) using wire brushes, including removal of dust, grime, muck, debris & other foreign material laying over gutters including disposal of debris outside the site premises to a distance not exceeding 5.0KM not objected by local civil authorities including lead, lift etc., complete all as specified & directed by Engineer in Charge.	RMT	2500		
2	<p>Providing & applying Bitumat Synroof Hi – Build elastomeric premium quality liquid waterproofing system including one layer of 60 GSM thermally bonded special polyester reinforcement carried out over the Peripheral areas of the AC/GI Sheet ventilator fans, Gutter joints, each No. of approximate area of 3.5 Sqm for each fan/sheet/gutter joint area as detailed below: .</p> <p>a) Supplying and applying premium quality acrylic waterproofing primer @ 250 grams per square meter after diluting as per the manufacturer's recommendations by allowing 3 to 4 hours for the primer to dry completely.</p> <p>b) Applying 2nd coat of premium quality acrylic waterproofing coating @ 350 grams per square meter using roller / brush after diluting as per the manufacturer's recommendations and simultaneously over this install 60 GSM thermally stabilized polyester reinforcement with 100mm side Laps and 150mm end laps and applying additional coat of quality acrylic waterproofing coating @ 350 grams per square meter using roller / brush.</p> <p>To Ensure there are no wrinkles or folds on the reinforcement membrane and allow it to dry for 24 hours. Applying final coat of premium quality acrylic waterproofing system @ 350 grams per square meter using roller / brush after diluting as per the manufacturer's recommendations after 24 hours of drying.</p> <p>All dilutions shall be strictly as per the manufacturer's instructions as shown in the product catalogue.</p> <p>The same system shall be carried out over the vertical areas like parapets if any.</p> <p>Note 1) All materials shall be produced with samples and to obtain prior approval of EIC before commencing the work</p> <p>2) The water proofing materials shall be tested as per the standards prescribed from the reputed laboratory for the following parameters and cost involved for conducting such test shall be borne by the Firm. The quoted rate shall be deemed to include for the cost of testing:</p> <p>a) Solid content (%)</p> <p>b) Viscosity (CPS)</p> <p>c) Density (Kg/l)</p> <p>d) Curing time (Touch dry time) at 27 degree Celsius.</p> <p>e) Tensile strength and Elongation %</p> <p>f) Hardness- Shore A scale.</p> <p>g) Permeability(Depth of penetration) mm.</p> <p>h) Coverage (Kg/m2).</p> <p>. Note: The rate quoted is deemed to include for providing & erecting scaffolding, staging/ladder & providing safety nets wherever necessary and protective measures etc.,complete all as specified & directed by Engineer in Charge.</p>	NOS	60		

Sl. No	Description	Unit	Qty	Rate/unit in fig. & in words Rs.	Amount (Rs)
3	<p>Preparing the surfaces and providing Bitumat Synroof Hi- build elastomeric premium quality liquid waterproofing system including one layer of 60 GSM thermally bonded special polyester reinforcement for all Gutters etc., complete with the following scope of works:</p> <p>a) Supplying and applying premium quality acrylic waterproofing primer @ 250 grams per square meter after diluting as per the manufacturer's recommendations by allowing 3 to 4 hours for the primer to dry completely.</p> <p>b) Applying 2nd coat of premium quality acrylic waterproofing coating @ 350 grams per square meter using roller / brush after diluting as per the manufacturer's recommendations and simultaneously over this install 60 GSM thermally stabilized polyester reinforcement with 100mm side Laps and 150mm end laps and applying additional coat of quality acrylic waterproofing coating @ 350 grams per square meter using roller / brush.</p> <p>To Ensure there are no wrinkles or folds on the reinforcement membrane and allow it to dry for 24 hours. Applying final coat of premium quality acrylic waterproofing system @ 350 grams per square meter using roller / brush after diluting as per the manufacturer's recommendations after 24 hours of drying.</p> <p>All dilutions shall be strictly as per the manufacturer's instructions as shown in the product catalogue.</p> <p>The same system shall be carried out over the vertical areas like parapets if any.</p> <p>Note 1) All materials are to be produced with samples and to obtain prior approval of EIC before commencing the work</p> <p>2) The water proofing materials shall be tested as per the standards prescribed from the reputed laboratory for the following parameters and cost involved for conducting such test shall be borne by the Firm. The quoted rate shall be deemed to include for the cost of testing:</p> <p>a) Solid content (%)</p> <p>b) Viscosity (CPS)</p> <p>c) Density (Kg/l)</p> <p>d) Curing time (Touch dry time) at 27 degree Celsius.</p> <p>e) Tensile strength and Elongation %</p> <p>f) Hardness- Shore A scale.</p> <p>g) Permeability(Depth of penetration) mm.</p> <p>h) Coverage (Kg/m2).</p> <p>Note: The rate quoted is deemed to include for providing & erecting scaffolding, staging/ladder & providing safety nets wherever necessary and protective measures etc.,complete all as specified & directed by Engineer in Charge.</p>	SQM	2300		
Total value of work excluding GST (Rs).					
GST (Rs).					
Total value of work inclusive of GST (Rs)					

Note:

- 1) The work shall be carried out at heights of 10 to 14 approximately.
- 2) The work shall be carried out after observing all safety precautions and after obtaining safety work permit for the day's work as per BEML Safety norms & policy.
- 3) The Contractor is solely responsible for safe execution of work and work shall be carried out strictly under supervision of qualified technical personnel of the Contractor till the completion of days work.
- 4)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 day's work.
- 5) The contractors/ prospective bidders shall visit the site and acquaint themselves with the site conditions before submission of bid/ quote.

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

Signature of the Contractor with seal