

 <b>बी एच ई एल</b> <b>BHEL</b> CBU-EPD	<b>PURCHASE SPECIFICATION          FIXED AWNING WITH TENSILE FABRIC</b>	Spec. No	EP:PVM:EQS:03
		Rev. No	00
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**TECHNICAL SPECIFICATION  
 FOR  
 FIXED AWNING WITH TENSILE FABRIC**

**AT**  
**ELECTROPORCELAINS DIVISION,  
 BHARAT HEAVY ELECTRICALS LTD.,  
 IISc POST, BANGALORE, INDIA 560012**

<b>REVISION DETAILS: (00)</b>	<b>PREPARED</b>		<b>DATE</b>
	<b>APPROVED</b>	<b>ISSUED:</b>	

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**Item:** Fixed awning with tensile fabric

**Dimensions:** Area: 21312 sqft. (approx.), Height= 20 feet (approx.) for a storage yard of approx. 50mx30m.

**Purpose:**

Fully finished solar panel modules will be stored for a period of 3-4 weeks for customer inspection. The finished goods are prone for damage if exposed to rain or sun-light, suitable arrangements are to be made to so that the material is not exposed to direct sun-light or rain splashes. The modules will be kept on pallets of size 1mx2m with 28 modules on one pallet enclosed in paper carton box with PVC wrapping. The pallets are stored in batches on platform in vertical stacking up to 4 pallets, with suitable intermediate supports. Maximum of 2350 nos. of pallets will be stored at a time waiting inspection / dispatch.

**Scope of the vendor:**

1. Design of layout with optimum space for storage of pallets, movement of forklifts and inspection personnel.
2. Design of support structure (steel structure) including design of foundation conforming to relevant Indian Standards.
3. The intermediate support columns shall be designed for free movement of forklifts / trucks.
4. The entire scope of supplying the required material, erection and commissioning of support structure and installation of laminated awning material (PVC tensile fabric), including suitable anchoring and support lies with the vendor.

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**BHEL Scope:**

1. Civil Works (Excavation, RCC etc.): For foundation, Gangway etc. ,
2. Steel Fabrication and Painting of for storage platform including all materials.

**Material Specifications:**

1. Steel structures as per design calculations and conforming to relevant Indian Standards. Support structure to be painted with red-oxide followed by two coats of epoxy paint (color options to be given in the Technical bid) to prevent corrosion.
2. Stainless steel or electro galvanized steel anchors and supports as per design calculations and conforming to relevant Indian Standards.
3. Fabric:
  - a. Laminated PVC fabric with minimum of, 75% fire-proofing and 62% heat rejection. Detailed material make shall be submitted in the technical bid.
  - b. Make: SERGEI, Dickson or equivalent.
  - c. Color: Available color options to be provided in the technical bid along with sample fabric. Color will be finalized by BHEL during technical evaluation of bids.

**Warranty:** Minimum 10 years. (Warranty terms & conditions to be clearly mentioned in the technical bid).

**Miscellaneous:**

1. There should be a provision of adjusting the tension in fabric if required.
2. Safety features:
  - a. Protection against impact,
  - b. Protection against release of toxic gases / foul smell in the vicinity during summers

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3. Vendors are advised to visit the site for assessment of work before submission of bid.

**Pre-qualification criterion:** Vendor should have successfully supplied and commissioned minimum 2 nos. similar structures of area not less than 10,000 sqft. in the last 3 years. Reference for the same to be submitted in the technical bid. BHEL reserves the right for independent verification of the reference provided.

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