

Annexure – I

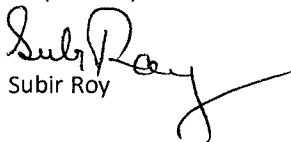
PR No.: 30026494, Dated: 09.09.2016

Item : Silicone Adhesive

Qty. : 75,000Kgs

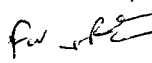
	A. PRE-QUALIFICATION CRITERIA	Bidder's Confirmation (Please indicate deviations, if any)
1	The offer shall be quoted only by the original Silicone Adhesive Manufacturers. However OEMs can also quote through their authorized channel partners/ dealers / representatives with a valid authorization certificate.	Manufacturing Plant Location: (Complete Address & Contact Details)
2	Vendors should have a minimum of 500,000 (Five hundred thousand) Kgs per annum production capacity for Silicone Adhesive.	Annual in-house manufacturing capacity for Cell interconnect:.....Kgs Vendors should provide Documentary evidence for demonstrating their plant capacity published by the way of published annual reports, licenses, third party certification etc....
3	Vendors should have supplied silicone adhesive of minimum 100000 Kg (One hundred thousand) Kgs per annum to reputed SPV Module manufacturers. The reputed module manufacturer should have manufactured module of rating 250 Wp or above and shall be IEC certified in the last three years.	Vendors should provide copies of purchase order/ contracts/ delivery documents, performance certificate etc. from their customers viz., PV module manufacturers for supply of silicone adhesive.
BHEL RESERVES THE RIGHT FOR INDEPENDENT VERIFICATION OF THE CLAIMS MADE FOR CONFORMANCE TO THE PRE-QUALIFICATION CRITERION. BIDDERS TO ENSURE PROVIDING AUTHENTIC CERTIFICATES / DOCUMENTATION AND CREDENTIALS IN ORDER TO QUALIFY FOR BHEL TENDER PROCESS.		
	B. TECHNICAL	
1.	Silicone Adhesive offered shall comply with BHEL Technical Specification No. PS 901 02 0006, Rev. 01.	Acceptable/Not Acceptable
2.	Certificate of conformance to the specification shall be provided with each lot mentioning BHEL Purchase Order number and quantity supplied.	Acceptable/Not Acceptable
3.	Supplier has to replace defective item found during opening of the package at the time of actual use at BHEL.	Acceptable/Not Acceptable
C. Price Basis		
1.	Price is to be quoted on per Kg basis.	Acceptable/Not Acceptable
D. Quantity Splitting		

Prepared By



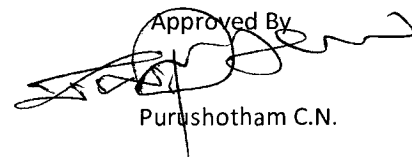
Subir Roy

Checked By



Ananda Rao N.

Approved By



Purushotham C.N.



BHEL-EPD

ELECTROPORCELAINS DIVISION
BENGALURU – 560012, INDIA
Purchase Specification
Group : Photovoltaic Module

SPEC. NO: PS-901-02-0006

REV. 01

JOB NO.-STD.

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RTV SILICONE ADHESIVE FOR PV MODULE

- 1.0 ITEM** : RTV Silicone Adhesive fast cure Type
2.0 APPLICATION : For sealing of PV panel with Aluminum Frames and Joining of Junction box to the back of panel on Back sheet.

3.0 TYPICAL PROPERTIES:

- 3.1 Color : White or Bright White
3.2 Appearance : Uncured: Thixotropic Paste, cured: Elastic Rubber
3.3 Density @23°C, g/cm³ : Cured 1.04 minimum
3.4 Tack free @23°C : 5 minutes
3.5 Tensile Strength : 1.6 Mpa min.
3.6 Elongation at break : min 430%
3.7 Hardness Type A : 26 min
3.8 Adhesive Strength : 1.3 Mpa min.
3.9 Volume Resistivity : 2.0×10^{15} min.
3.10 Dielectric Strength : 15 kv/mm min.
3.11 Temperature Resistance : -55°C to +200°C

NOTE:

- The silicon adhesive for solar PV module shall be certified with TUV/UL.
- The silicon adhesive shall be non-corrosive to metals.
- The silicon adhesive shall be of low odour type.
- The bidder shall provide min. of 20Kgs of true sample along with Techno-commercial bids for evaluation. The bulk supply by successful bidders will be evaluated w.r.t accepted sample as above & its technical specification deviation if any the lot will be liable for rejection.

4.0 PACKING CONDITIONS

- The silicone Adhesive shall be supplied in steel cylindrical barrels having inner diameter of 571.5 mm and of min. 250 liters each.
- Steel cylindrical barrels can be palletized capacity for transportation/ shipment and each barrel shall have manufactures label containing
 - Manufactures name
 - Product description
 - Lot no
 - Date of Manufacture
 - Date of Expiry
 - Handling /storage instruction if any.
- Final packing box shall have a label containing BHEL Purchase Order No. & Date and Specification No. - BHEL / PS-901-02-0006.
- Each lot must be accompanied with Manufacturer's Test certificate

Revision (01):	Issued By	Prepared By	Checked By	Approved By	Date
2 nd Issue	SPV Eng.	RKP	NAR	CNP	20.09.17

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