

Annexure – I

PR No.: 30026491, Dated: 09.09.2017

Item : ARC Glass

Qty. : 205000 Numbers

	A. PRE-QUALIFICATION CRITERIA	Bidder's Confirmation (Please indicate deviations, if any)
1	The offer shall be quoted only by the original ARC Glass 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 1000000 (One Million) Nos. per annum production capacity for ARC Glass.	Annual in-house manufacturing capacity for ARC Glass:.....SQM 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 ARC Glass of minimum 400000 (Four hundred thousand) Nos. 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 purchase order/ contracts/ delivery documents, performance certificate etc. from their customers viz., PV module manufacturers for supply of ARC Glass.
	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.	ARC Glass offered shall comply with BHEL Technical Specification No. PS 901 02 0001, Rev. 02.	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/broken glass 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 Number basis.	Acceptable/Not acceptable

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	 BHEL-EPD	ELECTROPORCELAINS DIVISION BENGALURU – 560012, INDIA Purchase Specification Group : Photovoltaic Module		SPEC. NO: PS-901-02-0001	
				REV. 02	JOB NO.-STD.
				PAGE 01 OF 01	
ARC GLASS – 3.2 mm Thick					
1.0	ITEM : AR (Anti Reflection) coated glass for PV modules				
2.0	APPLICATION : It is used in photovoltaic Modules.				
3.0	TECHNICAL SPECIFICATIONS:				
3.1	MATERIAL : Tempered				
3.2	TYPE : AR coated on one side and textured on other side.				
3.3	VISIBLE LIGHT : $\geq 93.5\%$ transmission				
3.4	DIMENSIONS : length : 1960 ± 1 mm Width : 980 ± 1 mm Thickness : 3.2 ± 0.2 mm				
3.5	MECHANICAL STRENGTH : 90 MPa min				
3.6	YOUNG MODULUS : 70 GPa Min				
3.7	HARDNESS : 6 Mohs min : 470 Knoop (indenter load 500g)				
3.8	BENDING : $< 0.30\%$				
3.9	DENSITY : 2500 Kg/m^3				
3.5	All corners to be rounded and edges to be ground.				
3.6	Glasses shall be free from visual defects.				
4.0	PACKING CONDITIONS:				
4.1	Glasses shall be individually interleaved with paper sheets.				
4.2	The glasses shall be tightly packed in a wooden pallet suitable for seaworthy and roadworthy packing to avoid transit damages. The glasses should be covered with polythene sheets to avoid moisture and water entry and protected with silica gel Sachets adequately placed.				
4.3	The wooden pallets shall be strong enough to handle the weight of glass on the pallet and loading in the Auto glass loader using forklifts in shop floor.				
4.4	Each pallet shall be marked outside with Manufacturer name, Lot no, Date of Manufacture, size of the glass, BHEL PO number, Purchase Specification No. – PS-901-02-0001 and Quantity.				
5.0	TEST CERTIFICATE: Supplier shall provide test certificate confirming the above technical specification.				
6.0	INSPECTION AT BHEL:				
6.1	Visual inspection, dimension and properties evaluation.				
6.2	Single sampling plan as per IS: 10673-1983, Special inspection level S-4, AQL 1.0				
Revision (02):	Issued By Prepared By Checked By Approved By Date				
3 rd Issue	SPV Eng. RKP <i>[Signature]</i> NAR <i>[Signature]</i> CNP <i>[Signature]</i> 18.09.17				

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