

Annexure – I/ Rev. 01

TENDER REF: EPD/PV/BACKSHEET/21113

Item : BACK SHEET

REVISED Qty. : 3,40,200 M²

	Quantity required is changed. Revised quantity is 3,40,200 M²	
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Clauses from ITB

E. Purchaser's Standard Commercial Terms :-

1. Unless specified otherwise in the RFQ , following are the Purchaser's standard commercial terms:-

Sl No	Description	For Purchase within India	For Foreign Purchase(Direct Imports)
i	Delivery Terms	Door Delivery to BHEL – EPD Stores ,Bangalore with Freight and Insurance paid	CIF ICD BANGALORE
ii	Payment Terms	<u>100% direct payment with 45 days credit from the date of</u> a) Receipt of material for Door delivery BHEL stores	100% against sight draft with 45 days credit on negotiation of complete set of documents
iii	Reckoning of Delivery Date	<u>For Door Delivery at BHEL Stores:-</u> Date of receipt of material at BHEL Stores.	<u>For Delivery Terms of CIF/CIP/ FCA / FOB</u> Date of House Airway Bill(HAWB) / Bill of Lading / Date of receipt by BHEL's Freight Forwarder whichever is earlier
iv.	Penalty for Delayed Delivery	As per clause 15 of General Conditions of Contract (DOC .NO.BHEL :EPD:GCC-SHOP:REV:00)	
v	Cancellation/ Termination of Contract & Risk Purchase	As per Clause 24 of General Conditions of Contract (DOC.NO.BHEL:EPD:GCC – SHOP :REV:00)	

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REVISED Qty. : 3,40,200 M²**F. Commercial Deviations / Offered Terms & Loading of Offers :-**

Unless specified otherwise in the RFQ and if the Purchaser decides to accept offers with deviations in respect of the standard commercial terms given at Clause No. E1 above, such offers will be subjected to loading on the **quoted basic material value** as detailed below:-

SI No	Deviation on	Nature of Deviation / Offered Terms	Loading %
i	Delivery Terms	<u>For purchase within India :-</u> Other than SI No.1 (i) of clause E above.	10
ii.	Payment Terms	<u>For purchase within India :-</u> 1) Payment against receipt & acceptance of material with 45 days credit from the date of receipt of material.	0
		<u>For foreign purchase :-</u> 1) Payment through Letter of Credit with usance credit of 45 days from the date of B/L	5
		2) Sight Draft with credit period of 45 days from the date of B/L	0
iii	Penalty for Delayed Delivery	1) Non – Acceptance	10
		2) Partial Acceptance (X%)	(10 – X)

* All bank charges shall be to seller's account. If bank charges of BHEL banker are to BHEL's account then **additional loading of 2% on the quoted basic value** is applicable.

NOTE: Offer/ s with payment terms other than the standard payment terms indicated at E1(ii) or Deviated Payment Terms with loading indicated at F(ii) above are liable for rejection.

START OF DELIVERY PERIOD: - DELIVERY PERIOD WILL START FROM THE DATE OF LC FOR FOREIGN VENDORS IF HE QUOTES PAYMENT AGAINST LC INSTEAD OF DATE OF PO.



Electroporcelains Division
Bengaluru – 560012, India

PS 901 02 0007

Rev No : 01

Purchase Specification
Group : Photovoltaic Module

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BACK SHEET – PET BASED SHEET

A) PARAMETERS:

- | | | |
|------|------------------------------|---|
| 1.0 | Item | : Laminated composite back sheet for photovoltaic module (3 layered structure with outerlayer fluoro-polymer, middle layer pet and inner layer of fluoropolymer / uv resistant polymer) |
| 2.0 | Application | : As back cover for lamination of pv module along with EVA |
| 3.0 | Width | : 985 ± 2 mm |
| 4.0 | Thickness | : 0.30 mm minimum |
| 5.0 | Colour | : White |
| 6.0 | Adhesion Strength (with EVA) | : $\geq 40\text{N} / 10\text{mm}$ |
| 7.0 | Tensile Strength | : MD 100 MPa
TD 100 MPa |
| 8.0 | Elongation @ Break | : MD 100 %
TD 90 % |
| 9.0 | Heat Shrinkage | : MD 1.50 %
TD 0.50 % |
| 10.0 | Moisture Barrier | : $< 3 \text{ g}/(\text{m}^2\text{-day})$ |
| 11.0 | Dielectric Strength | : $\geq 18 \text{ kV}$ |
| 12.0 | Partial Discharge | : $\geq 1000 \text{ VDC}$ |

Prepared By: PK	Reviewed By: NAR	Approved By: CNP	Date of Issue
	 12/09/2016		12.09.2016



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B) PACKING CONDITIONS :

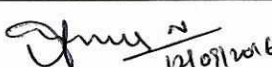
1. Material shall be packed in aluminium foil / polythene cover to avoid possible material degradation.
2. Roll length : not more than 100 linear metres
3. Each roll shall have manufacturer label containing manufacturer name, lot no., date of manufacture, date of expiry, width, quantity.
4. Outside carton/plywood box shall have BHEL PO number.
5. Each lot must be accompanied with a test certificate for conformance to the this specification.
6. Air side to be identified on the roll with printed letters.

C) INSPECTION AT BHEL:

- a. Visual Inspection, Dimensional & Properties evaluation
- b. Single Sampling Plan as per IS:10673-1983, Special Inspection Level S-4, AQL 1.0

NOTE :

1. Certificate for partial discharge test for permissible system voltage ≥ 1000 VDC as per IEC standards to be provided by the supplier along with the offer.
2. The backsheet shall be UL / TUV Certified.

Prepared By: PK	Reviewed By: NAR	Approved By: CNP	Date of Issue
	 12/09/2016		12.09.2016