

Bharat Heavy Electricals Ltd.,

(A Government of India undertaking)

Electronics Division

PB No.2606, Mysore Road, Bangalore-560026, India

Tel **080-26998476** / email: **ramachandra@bheledn.co.in**

Sealed quotations are invited under two part bid system for manufacturing and Supply of 295 Wp PV Modules with DCR solar cells and 300 Wp PV Modules with Non DCR solar cells as per BHEL technical specifications PS-439-328 Rev 00 and PS-439-329 Rev 00 respectively

RFQ NO and date	RCRSCP120 dated 20/05/2015
RFQ due date	10/06/2015 up to 13.00 hrs
Date, Time & Venue of Technical Bid Opening	10/06/2015, 13.30 hrs New Engineering Building 2nd Floor Bharat Heavy Electricals Limited PB NO 2606, Mysore road, Bangalore-560 026. INDIA
Date, Time & Venue of Price Bid opening	Will be intimated later for technically accepted vendors
Address for Communication & Contact Person in BHEL	Mr. Ramachandra Deputy General Manager (SC&PV-MM) Bharat Heavy Electricals Limited PB NO 2606, Mysore road, Bangalore-560 026. INDIA Email: ramachandra@bheledn.co.in Telephone number: +91 80 26998476, Fax: +91 80 26989217
Name and address of the Independent External Monitor for this tender	Shri D.R.S Chaudhary, IAS (Retd.) Flat No. L-202 & L-203 (1st Floor) Ansal Lake View Enclave Shamla Hills Bhopal- 462 013 Email: dilip.chaudhary@icloud.com

REQUEST FOR QUOTATION



BHARAT HEAVY ELECTRICALS LIMITED
Electronics Division
PB No. 2606, Mysore Road Bangalore - 560026
INDIA

RFQ NUMBER:
RCRSCP120

RFQ DATE :
20.05.2015

Due Date/Day: 10.06.2015 WED
Time : 13:00 HRS
Tender Box : Reception Area
Opening Venue:
NEW ENGG. BLDG

MMI:PU:RF:003

(address for communication) :

(for all correspondence)

Purchase Executive : RAMACHANDRA
Phone : 26998476
Fax : 00918026989219
E-mail: ramachandra@bheledn.co.in

Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
1	PV0679039350 PV Module Multi (295W-DCR/300W-Non DCR) Test Certificate	105,000	NO	105,000	24.12.2015

Total Number of Items - 1

- 1.
- 2.

TWO PART BID - SUBMIT TECHNICAL AND PRICE BID IN SEPARATE SEALED COVERS

NOTES :

1.This RFQ is Governed by :

a)INSTRUCTIONS TO BIDDERS/SELLERS(Doc No :BHEL:EDN:ITB-SHOP) available at

www.bheledn.com (RFQ-PO Terms & Conditions)

b)GENERAL CONDITIONS OF CONTRACT FOR PURCHASE(Doc no :BHEL:EDN:GCC-SHOP) available

at **www.bheledn.com (RFQ-PO Terms & Conditions)**

c)Any other specific Terms and Conditions mentioned.

2. Bidders / Representatives who would like to be present during opening of offers are required to furnish authorization letter for the same.

For and On behalf of BHEL.

RAMACHANDRA
Semiconductors & Pho

1 OF 1

SPECIAL TERMS & CONDITIONS

These special terms & conditions and General Conditions of Contract (Document No: BHEL: EDN: SHOP: GCC: Rev00) shall apply for this REQUEST FOR QUOTATION (RFQ) and any resulting Order(s) / Agreement(s). If it is found any contradiction between these special terms & conditions and General Conditions of Contract, those in special terms and conditions will prevail. Bidders can refer INSTRUCTIONS TO BIDDERS / SELLERS (Doc No. BHEL: EDN: ITB – SHOP: Rev00). However clause C6, E & F of Doc No. BHEL: EDN: ITB – SHOP: Rev00 will not be applicable for this Tender/RFQ.

1. Quotation shall be submitted in two parts:

(a) Techno-Commercial i.e., Un-priced Bid: Techno-commercial bid shall be submitted with complete description of the item, specification compliances to the enquired specification and all the commercial terms & conditions indicated in the given format. Any other enclosure, which the supplier wishes to submit like product catalogue, technical literature etc., may also be submitted in a sealed envelope super scribed clearly as “**TECHNO-COMMERCIAL BID**” with **RFQ No. and DUE DATE**. Techno- commercial bid format is provided with this document.

(b) Price Bid: Price bid should contain basic unit prices, discount if any, applicable taxes & duties, etc. Separate price bids has to be submitted for module manufactured with DCR solar cells and Non DCR solar cells. Price bid for modules with DCR cells to be enclosed in one sealed envelope and super scribed as “**PRICE BID-1 (DCR cells)**” with **RFQ No.** Price bid for modules with NON-DCR cells to be enclosed in another sealed envelope and super scribed as “**PRICE BID-2 (Non - DCR cells)**” with **RFQ No.**

2. All the three sealed envelopes [(a) Techno-commercial i.e., un-priced Bid and (b) Price Bid-1 and (c) Price Bid-2] shall be kept in a **single sealed envelope** and super scribed clearly with **RFQ No., DUE DATE and vendor’s address**.
3. The above sealed envelope (Tender) shall reach our office on or before the due date by **13:00 hrs**. Quotations has to be dropped in the **tender box No. 06** kept at BHEL-EDN’s Reception area. Quotations also can be dispatched by Couriers / Registered post / to the Purchase Executive. BHEL EDN is not responsible for any delay in receipt of quotation sent by supplier through post. Tenders received after due date will not be considered and stand rejected.
4. Quotations are to be duly signed. Unsigned bids / offers are liable for rejection.
5. Tenders will be opened **at 13:30 hrs on due date**. All the tenderers or their authorized representatives (with authorization letter from their principals) may witness opening of techno-commercial bid on the due date.
6. BHEL standard terms of payment is 100% Payment with 30 days credit **OR** 100% Payment against documents through bank with consignment door delivered to project site (without consignee copy of LR) and 30 days credit period – All bank charges to seller’s account.
7. Quotations with “Advance payment” or “Inland LC” will not be accepted.

8. Terms of delivery :

- a) **Modules with DCR Solar cells: FOR Project Site** NTPC Ltd, P4 Block, Kadiri taluk, Ananthpur district, Andhra Pradesh.
 - b) **Modules with Non-DCR Solar cells: DOOR DELIVERY BHEL-EDN BANGALORE.**
9. Quotation should remain valid for a minimum period of **90 days** from the date of technical bid opening.
10. The rate quoted shall be in **price per PV module basis and not per watt**. The particular format given with this document is to be used.
11. Rates quoted should be **firm and to be quoted in INR** and no enhancement in the rates and changes in the techno-commercial terms will be allowed once the quotation is accepted and order is placed.
12. Price Bids of only those which are technically & commercially accepted will be opened on a subsequent date, which will be intimated to the concerned in advance for witnessing of price bid opening.
13. BHEL reserves the right to go for **Reverse Auction (RA)** instead of opening the sealed envelope price bid, submitted by the bidder. This will be decided after techno-commercial evaluation. All bidders to give their acceptance for participation in RA. Non-acceptance to participate in RA may result in non-consideration of their bids, in case BHEL decides to go for RA.
In case BHEL decides to go for Reverse Auction, only those bidders who have given their acceptance to participate in RA will be allowed to participate in the Reverse Auction. Those bidders who have given their acceptance to participate in Reverse Auction will have to necessarily submit „online sealed bid“ in the Reverse Auction. Non-submission of „online sealed bid“ by the bidder will be considered tampering of the tender process and will invite action by BHEL as per extant guidelines in vogue.
14. Bidders shall indicate clearly Excise duty, Education Cess, Sales Tax/VAT, Octroi, Exit/Entry tax, Service Tax as applicable for the quoted items. In the absence of clarity of these, any claim at a later date will not be entertained. Any changes in Taxes and duties after award of the contract will not be considered except such are those, which are imposed by Govt., notification within the contractual delivery. Seeking price amendments for change in Excise duty due to crossing of turnover limits will not be considered under any circumstances.
15. BHEL reserve the right to Split the order quantity in the ratio of 50:30:20 to L1, L2 and L3 vendors respectively, in case L2/L3 accept to supply as per L1 negotiated price. In case, L2/L3 does not accept to supply as per L1 negotiated price, the counter offer will be extended to subsequent vendors.

- 16.** Delivery: BHEL requires delivery of modules at a rate of 9000 Nos /Month commencing from 8 weeks from the PO date

- 17.** Pre-shipment inspection at vendor's works will be carried out by BHEL / BHEL's customer. Required assistance will have to be provided by the vendor at the time of pre-shipment inspection. Test certificates, Calibration certificates and warranty certificates as stipulated at the time of ordering shall be furnished with inspection call for every lot.

- 18.** In the event of delay in agreed contractual delivery as per Purchase Order, penalty @ 0.5 % (half percent) per week or part thereof but limited to a max of 10% (ten percent) value of delayed portion (basic material cost) will be applicable. Delivery will commence from the date of purchase order. The date for which Inspection call is issued by vendor along with test certificates / test reports / Certificate of Conformance / calibration reports, as proof of completion of manufacturing will be treated as date of deemed delivery for penalty calculation. If penalty is applicable for duration of less than a week, penalty @ 0.5% (half percent) of the basic material value will be deducted.

(Please print in Company Letter Head)

Techno-Commercial bid Format

BHEL RFQ No. :
Item Description :
Quantity :
Supplier Name :

Sl No.	Terms and conditions	Vendor's confirmation (Please ✓ whichever applicable)
1.	Terms of Delivery: a) Modules with DCR Solar cells: FOR Project Site NTPC Ltd, P4 Block, Kadiri taluk, Ananthpur district, Andhra Pradesh. b) Modules with Non-DCR Solar cells: DOOR DELIVERY BHEL-EDN BANGALORE.	<input type="checkbox"/> <input type="checkbox"/>
2.	Terms of Payment: i. 100% Payment with 30 days credit ii. 100% Payment against documents through bank with consignment door delivered to project site (without consignee copy of LR) and 30 days credit period – All bank charges to seller's account. iii. 100% Payment against documents through bank with consignment door delivered to project site (without consignee copy of LR) with 15 days credit- All bank charges to seller's account.(2% of loading factor will be applicable) iv. 100% Payment against documents through bank with consignment door delivered to project site (without consignee copy of LR) with 7 days credit - All bank charges to seller's account. (4% of loading factor will be applicable)	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
3.	Delivery Required by BHEL: BHEL requires delivery of modules at a rate of 9000 Nos /Month commencing from 8 weeks from PO date	Acceptable / Not Acceptable
4.	Penalty for delayed delivery: 0.5 % of basic value per week for undelivered portion subject to a maximum of 10 %. Loading factor will be applicable for non-acceptance	Acceptable / Not Acceptable In case of partial

	of penalty clause, Non- Acceptance: 10% Partial non Acceptance (X%): (10- X)%	acceptance, please specify clearly.
5.	Price basis: Price is to be quoted on per module basis . Purchase order will be placed on “number of PV modules” basis. Price shall remain firm till completion of supply of total ordered quantity.	Acceptable / Not Acceptable
6.	Validity: Quotation should remain valid for 90 days from the RFQ due date.	Acceptable / Not acceptable
7	Order Splitting: BHEL reserve the right to Split the order quantity in the ratio of 50:30:20 to L1, L2 and L3 vendors respectively, in case L2/L3 accept to supply as per L1 negotiated price. In case, L2/L3 does not accept to supply as per L1 negotiated price, the counter offer will be extended to subsequent vendors.	Acceptable / Not acceptable
8	Reverse Auction: BHEL reserves the right to go for Reverse Auction (RA) instead of opening the sealed envelope price bid.	Acceptable / Not acceptable
11	Taxes and Duties Excise duty CST against form C VAT	Applicable Taxes & duties ED : CST : VAT :
12	Integrity Pact: The “Integrity Pact” in the prescribed format has to be signed and enclosed.	Yes/ No
13	Pre-shipment inspection: Pre-shipment inspection at vendor’s works will be carried out by BHEL / BHEL’s customer. Required assistance will have to be provided by the vendor at the time of pre-shipment inspection.	Acceptable / Not Acceptable

**Signature of Tenderer /
with Seal**

Place:

Date:

(Please print in Company Letter Head)

PRICE BID -1 (FOR DCR cells)

BHEL RFQ No. :
Item Description :
Quantity :
Supplier Name :

Sl. No.	Item Description	Price per PV module (Rs.)
1.	295 Wp PV Modules with DCR solar cells as per BHEL technical specification PS-439-328 Rev 00	

Signature of Tenderer / with Seal

Place:

Date:

(Please print in Company Letter Head)

PRICE BID-2 (NON DCR CELLS)

BHEL RFQ No. :
Item Description :
Quantity :
Supplier Name :

Sl. No.	Item Description	Price per PV module (Rs.)
1.	300 Wp PV Modules with Non DCR solar cells as per BHEL technical specification PS-439-329 Rev 00	

Signature of Tenderer / with Seal

Place:

Date:



PURCHASE SPECIFICATION

GROUP: PHOTOVOLTAICS

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ITEM: 295-WATT MULTI PV MODULE

1.0 PRE-QUALIFICATION CRITERIA CHECK-LIST

Sl. No	Particulars	Bidder's confirmation
1	The offer shall be quoted only by the original Indian PV module manufacturer. Any offers received from parties other than original PV module manufacturers (India) shall be rejected.	Manufacturing Plant Location: (Complete Address & Contact Details with Email address)
2	Vendor should have a minimum of 30 MW/annum PV module automated in-house manufacturing facilities (automated tabber-stringer, laminator and framing). PV Modules shall be manufactured at the vendor's works only.	Yes / No a. Tabber-stringer Make: b. Laminator Make: c. Framing Station Make: d. EL Tester Make: e. Sun Simulator Make:
3	1. Design Qualification and Type Approval as per i) IEC 61215 – Edition 2.0 2005-04 Crystalline silicon terrestrial photovoltaic (PV) modules – Design qualification and type approval ii) IEC 61730 – 1 Edition 1.2 2013-03 Photovoltaic (PV) module safety qualification – Part 1: Requirements for construction IEC 61730 – 2 Edition 1.0 2004-10 Photovoltaic (PV) module safety qualification – Part 2: Requirements for Testing iii) IEC 61701 – Edition 2.0 2011-12 Salt mist corrosion testing of photovoltaic (PV) modules For multi crystalline PV Modules with Indian manufactured cells (DCR Cells) . Valid IEC Test Certificate to be attached with the offer and also the corresponding approved bill of materials (BoM) as per test report from test lab.	Yes / No
4	Vendor should have tie-up/consent from Domestic Content Requirement (DCR) Indian solar cell manufacturer and provide documentary evidence for the same from indigenous solar cell manufacturer.	Yes / No
5	Vendor should have manufactured and supplied a cumulative of 15 MW PV modules (mono or multi) during the period from April 2014 to March 2015. Details of dispatches in the mentioned period to be validated with customer Purchase Orders or customer feedback.	Yes / No

Note:

1. Pre-qualification will be carried out based on the details furnished by the vendor / purchase orders from their customers / inspection of the company / product if required by BHEL and at its sole discretion.
2. The Pre-qualification criteria are mandatory requirements and the technical bids will be considered only if all the above Pre-Qualification Criteria are met.

REVISION (00)

APPROVED BY
SR

PREPARED

ISSUED

DATE

SM

Engg

18.05.2015

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2.0 TECHNICAL REQUIREMENTS

Sl. No	Item	Remarks
1	PV Module Configuration	Multi crystalline Photovoltaic Module with 72 nos. of 156-mm Multi Crystalline silicon solar cells (sourced from Indian Solar Cell Manufacturers) in 12*6 series configuration. The module outline and bill of material shall be as per vendor's approved IEC certification. BHEL shall not supply solar cells or module input materials. Please enclose complete Module overall assembly drawing with mounting holes, Data sheet with typical electrical characteristics and I-V curve, temperature coefficients for power, voltage and current
2	Power Output	295 Watts (minimum)
3	Fill Factor	0.7(Minimum)
	Bill of Materials:	
4.1	Solar cells	Three bus bar 156-mm Multi Crystalline silicon solar cells sourced from Indian Solar Cell Manufacturers as per Domestic Content Requirement (DCR).
4.2	EVA	Fast cure type
4.3	Glass	High transmission, low iron, tempered and one- side textured
4.4	Back Sheet	Color: White TUV-certified for partial discharge test for system voltage \geq 1000 V DC
4.5	PV Module Frame	Corrosion resistant Anodized Aluminum (Corner block type) & anodizing thickness: 15 microns minimum
4.6	PV Module Frame Mounting Pitch	Mounting Pitch on the Aluminum Frame shall be as per BHEL requirement. Vertical/ Length side: 1200 ± 2.0 mm Horizontal/Width side: 956 ± 2.0 mm
4.7	Frame Sealing, JB Potting	RTV / Silicone sealant, Neutral cure
4.8	IP65 grade Junction Box with 3 bypass diodes (15 A, 40 V), two 4 sq.mm solar cables with quick connectors (TUV certified MC4 type connector)	TUV-certified Junction Box which is mounted on the back sheet and adequately sealed for protection against possible moisture ingress. Protection: IP 65, Class II, Rated Voltage: 1000 V DC
4.9	IEC Certification	The SPV module supplied must conform to IEC 61215 – Edition 2.0 2005-04, IEC 61730 – 1 Edition 1.2 2013-03, IEC 61730 – 2 Edition 1.0 2004-10, IEC 61701 – Edition 2.0 2011-12 with multi crystalline Indian manufactured cells (DCR Cells). SPV modules must have already been tested and certified by any of the accredited certifying agencies according to above mentioned International Standards and the type test reports shall be submitted for approval.
4.10	RFID Tag pasted on the back side of Module	As per Clause 3.0 OTHER REQUIREMENTS SI. No. (c) Page 3 of 7

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		<p>3.0 OTHER REQUIREMENTS</p> <p>a. SPV module shall perform satisfactorily with ambient temperatures between -10°C & +85°C and shall withstand gust up to 150 Km/h on the surface of the panel. Each and every SPV module shall be checked for conformity with IEC standards and no negative power tolerance shall be accepted.</p> <p>b. The interconnected cells shall be laminated in vacuum to withstand adverse environmental conditions.</p>			
<p>COPYRIGHT AND CONFIDENTIAL</p> <p><i>The information on this document is the property of Bharat Heavy Electricals Ltd. It must not be used directly or indirectly in anyway detrimental to the interest of the company.</i></p>		<p>c. Each PV module deployed must use a Radio Frequency identification (RFID) tag for traceability. The RFID shall be on the backside of the laminate, but must be able to withstand harsh environmental conditions during the module lifetime. The following information must be written in the RFID used on the each module</p> <ol style="list-style-type: none"> i. Name of the manufacturer - PV module ii. Name of the manufacturer - Solar Cells iii. Month & year of the manufacture (separate for solar cells and modules) iv. Country of origin (separately for solar cells and module) v. I-V curve for the module vi. Wattage, Im, Vm and FF for the module vii. Unique Serial No. and Model No. of the module viii. Date and year of obtaining IEC PV module qualification certificate ix. Name of the test lab issuing IEC certificate x. Other relevant information on traceability of solar cells and module as per ISO 9001. <p>d. RATING STICKERS</p> <p>All individual modules shall be provided with Rating Sticker label at the back of module which shall provide the information given below for identification. They shall be clearly visible and shall not be hidden by equipment wiring. Type of labels and fixing of labels shall be such that they are not likely to peel off/ fall off during the life of the panel.</p> <ol style="list-style-type: none"> 1. Manufacturer's Name 2. Model Number 3. Overall Dimensions (W x L x D) 4. Weight (kg) 5. Maximum Power (Pmax) , Voltage (Vmp), Current (Imp) 6. Short Circuit Current (Isc), Open Circuit Voltage (Voc) 7. Main System Voltage 8. Relevant standards, Certification lab. name 9. Warnings, if any 			



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4.0 FUNCTIONAL REQUIREMENTS

Sl No.	Item	Description
1	Product warranty	5 Years from the date of supply against manufacturing defects Free replacement against defects.
2	Product performance (power) warranty	Each Solar PV modules used in solar power plants/ systems must be warranted for their output peak watt capacity, which should not be less than 90% at the end of 10 years and 80% at the end of 25 years from the completion of the trial run. Free replacement against non-performance.
3	Grouping of PV Modules	PV Modules shall be grouped in power output bands (as per our instructions at PO placement) color sticker (20mm * 10 mm approx.) to be affixed on the module frames and outside packing box accordingly.
4	Packing	Modules to be packed in suitable carton box. Modules of the same group (colour band) to be packed in a box. Same colour code sticker (100*100 mm) shall be affixed on the carton box. The carton box should display the manufacturer's name, number of modules, Serial number, Power Output, etc.
5	Quality Assurance	
5.1	Pre-dispatch inspection by BHEL/Custom er at Vendor's works	BHEL/Customer shall carry out Pre-dispatch inspection (Visual and Electrical) of every lot at vendor's works.
5.2	Performance of SPV module at STC	1) Test Report: 295 Wp (minimum). Shall be inspected/ verified at vendor's works under STC by BHEL/Customer. 2) Sun simulator should be calibrated by a reference PV Module to be tested by MNRE/UL India/TUV Rheinland India/other reputed test lab as per IEC guidelines. Sampling Plan for Inspection by BHEL/Customer at Vendor's works General Inspection Level II and AQL 1.5% as per IS 2500 Part 1
5.3	Visual Characteristics	Each PV module shall be free from the following visual defects: Cell breakage/cracks, Air bubbles or de-lamination, Cells overlapping one another or cells touching the edge frame, scratches on the frame and/or glass, Excessive or uneven glue marks on glass or frame, Inconsistent cell colors. The module shall be complete in all respects. Sampling Plan for Inspection by BHEL/Customer at Vendor's works General Inspection Level II and AQL 1.5% as per IS 2500 Part 1
5.4	IR-HV-IR test	Check the insulation between the shorted terminals of junction box and aluminum frame at 1000 V DC before and after HV test. Test Module to withstand High Voltage of 3000V dc as per IEC 61215.Apply 3000 V DC for 1 minute between the shorted terminals of junction box and aluminum frame. There should not be any di-electric break down. Sampling Plan for Inspection by BHEL/Customer at Vendor's works Special Inspection Level S-2 and AQL 1.5% as per IS 2500 Part 1

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Sl No.	Item	Description
5.5	Incoming material checks, in-process checks	Checks on bought out items and In-process checks shall be carried out as per internal standards of the manufacturer
5.6	Reliability Tests	Insulation, Robustness of Terminations and Mechanical Load test as per IEC 61215 Sampling Plan for Inspection by BHEL/Customer at Vendor's works Robustness of terminations on 1 sample per offered lot Mechanical load test on 1 sample per offered lot

Sl. No.	Particulars	Bidder's Confirmation Please indicate deviations, if any.
1.	Confirmation to BHEL Specification PS- 439-328 in totality	

- Note:** 1. Any deviation from the above specifications shall be clearly brought out by the supplier.
2. Documents required are to be attached along with the offer.

Signature of Tenderer with stamp

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<p>COPYRIGHT AND CONFIDENTIAL</p> <p><i>The information on this document is the property of Bharat Heavy Electricals Ltd. It must not be used directly or indirectly in anyway detrimental to the interest of the company.</i></p>			<p>5.0 GENERAL CONDITIONS</p> <ol style="list-style-type: none"> 1. PV Modules shall be manufactured at the vendor's works only. 2. Traceability process / documents to trace the procurement of DCR solar cells 3. Vendor should be approved by BHEL's customer prior to placement of order. Necessary documentation to be provided on BHEL requirement. 4. Manufacturing clearance shall be given only after approval of manufacturing quality plan, approval of drawings and datasheet and after sample PV Module approval. 5. Vendor shall ensure that their solar cell sub-supplier is following all process and documentation for traceability of the DCR cells manufactured by them in India. 6. Any additional tests/type tests required by BHEL/BHEL's customer shall be complied and borne by the vendor. <p style="text-align: center;"><u>Details to be furnished along with the technical offer</u></p> <ol style="list-style-type: none"> 1. Valid IEC Test Certificate and Bill of material 2. A clause wise deviation, if any, has to be brought out clearly. If there are no deviations, the vendor has to positively certify compliance to the specifications in toto. 3. The complete technical information and catalogue shall be given. The bidder shall provide sample solar PV module electrical characteristics including current-voltage (I-V) performance curves and temperature coefficients of power, voltage and current. 4. Reference list of customers to be furnished. 5. List of Manufacturing Equipment available 6. List of Testing Equipment available 7. Manufacturing Process Flow Chart 8. Details of Outsourced Manufacturing Processes (if any) 9. Internal Quality Plan followed by manufacturer 10. A copy of typical routine / sample test certificate 11. Traceability documents for DCR/Indian solar cells 	<p>Page</p>	<p>06 of 07</p>



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6.0 IEC TYPE TEST APPROVED BILL-OF-MATERIAL/ SUPPLIER LIST

Sl. No.	Item	Sub-Vendor Name (to be mentioned by PV Module supplier)
1.	Solar Cells	
2.	Front Glass	
3.	Fast cure EVA sheet	
4.	Back sheet	
5.	Interconnect & Busbars	
6.	Junction Box (4 terminals, 3 diodes)	
7.	Al. Frames	
8.	Frame Sealing, JB Potting	

Note:

1. Vendors shall source the above mentioned materials only from the approved Bill of Material corresponding to the Indian solar cell/DCR approved IEC test certificate.
2. Sample PV Module approval required from BHEL before bulk manufacturing and supply.

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ITEM: 300-WATT MULTI PV MODULE

1.0 PRE-QUALIFICATION CRITERIA CHECK-LIST

Sl. No	Particulars	Bidder's confirmation
1	The offer shall be quoted only by the original Indian PV module manufacturer. Any offers received from parties other than original PV module manufacturers (India) shall be rejected.	Manufacturing Plant Location: (Complete Address & Contact Details with Email address)
2	Vendor should have a minimum of 30 MW/annum PV module automated in-house manufacturing facilities (automated tabber-stringer, laminator and framing). PV Modules shall be manufactured at the vendor's works only.	Yes / No a. Tabber-stringer Make: b. Laminator Make: c. Framing Station Make: d. EL Tester Make: e. Sun Simulator Make:
3	1. Design Qualification and Type Approval as per i) IEC 61215 – Edition 2.0 2005-04 Crystalline silicon terrestrial photovoltaic (PV) modules – Design qualification and type approval ii) IEC 61730 – 1 Edition 1.2 2013-03 Photovoltaic (PV) module safety qualification – Part 1: Requirements for construction IEC 61730 – 2 Edition 1.0 2004-10 Photovoltaic (PV) module safety qualification – Part 2: Requirements for Testing iii) IEC 61701 – Edition 2.0 2011-12 Salt mist corrosion testing of photovoltaic (PV) modules For multi crystalline PV Modules. Valid IEC Test Certificate to be attached with the offer and also the corresponding approved bill of materials (BoM) as per test report from test lab.	Yes / No
4	Vendor should have manufactured and supplied a cumulative of 15 MW PV modules (mono or multi) during the period from April 2014 to March 2015. Details of dispatches in the mentioned period to be validated with customer Purchase Orders or customer feedback.	Yes / No

Note:

1. Pre-qualification will be carried out based on the details furnished by the vendor / purchase orders from their customers / inspection of the company / product if required by BHEL and at its sole discretion.

2. The Pre-qualification criteria are mandatory requirements and the technical bids will be considered only if all the above Pre-qualification Criteria are met.

REVISION (00)

APPROVED BY
SR

PREPARED

ISSUED

DATE

SM

Engg

21.5.15

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PURCHASE SPECIFICATION


GROUP: PHOTOVOLTAICS

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2.0 TECHNICAL REQUIREMENTS

Sl. No	Item	Remarks
1	PV Module Configuration	Multi crystalline Photovoltaic Module with 72 nos. of 156-mm Multi Crystalline silicon solar cells in 12*6 series configuration. The module outline and bill of material shall be as per vendor's approved IEC certification. BHEL shall not supply solar cells or module input materials. Please enclose complete Module overall assembly drawing with mounting holes, Data sheet with typical electrical characteristics and I-V curve, temperature coefficients for power, voltage and current
2	Power Output	300 Watts (minimum)
3	Fill Factor	0.7(Minimum)
	Bill of Materials:	
4.1	Solar cells	Three bus bar 156-mm Multi Crystalline silicon solar cells
4.2	EVA	Fast cure type
4.3	Glass	High transmission, low iron, tempered and one- side textured
4.4	Back Sheet	Color: White TUV-certified for partial discharge test for system voltage \geq 1000 V DC
4.5	PV Module Frame	Corrosion resistant Anodized Aluminum (Corner block type) & anodizing thickness: 15 microns minimum
4.6	PV Module Frame Mounting Pitch	Mounting Pitch on the Aluminum Frame shall be as per BHEL requirement. Vertical/ Length si 1200 ± 2.0 mm Horizontal/Width side: 956 ± 2.0 mm
4.7	Frame Sealing, JB Potting	RTV / Silicone sealant, Neutral cure
4.8	IP65 grade Junction Box with 3 bypass diodes (15 A, 40 V), two 4 sq.mm solar cables with quick connectors (TUV certified MC4 type connector)	TUV-certified Junction Box which is mounted on the back sheet and adequately sealed for protection against possible moisture ingress. Protection: IP 65, Class II, Rated Voltage: 1000 V DC
4.9	IEC Certification	The SPV module supplied must conform to IEC 61215 – Edition 2.0 2005-04, IEC 61730 – 1 Edition 1.2 2013-03, IEC 61730 – 2 Edition 1.0 2004-10, IEC 61701 – Edition 2.0 2011-12 with multi crystalline solar cells. SPV modules must have already been tested and certified by any of the accredited certifying agencies according to above mentioned International Standards and the type test reports shall be submitted for approval.
4.10	RFID Tag pasted on the back side of Module	As per Clause 3.0 OTHER REQUIREMENTS SI. No. (c) Page 3 of 7

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COPYRIGHT AND CONFIDENTIAL <i>The information on this document is the property of Bharat Heavy Electricals Ltd. It must not be used directly or indirectly in anyway detrimental to the interest of the company.</i>			3.0 OTHER REQUIREMENTS a. SPV module shall perform satisfactorily with ambient temperatures between -10°C & +85°C and shall withstand gust up to 150 Km/h on the surface of the panel. Each and every SPV module shall be checked for conformity with IEC standards and no negative power tolerance shall be accepted. b. The interconnected cells shall be laminated in vacuum to withstand adverse environmental conditions. c. Each PV module deployed must use a Radio Frequency identification (RFID) tag for traceability. The RFID shall be on the backside of the laminate, but must be able to withstand harsh environmental conditions during the module lifetime. The following information must be written in the RFID used on the each module i. Name of the manufacturer - PV module ii. Name of the manufacturer - Solar Cells iii. Month & year of the manufacture (separate for solar cells and modules) iv. Country of origin (separately for solar cells and module) v. I-V curve for the module vi. Wattage, Im, Vm and FF for the module vii. Unique Serial No. and Model No. of the module viii. Date and year of obtaining IEC PV module qualification certificate ix. Name of the test lab issuing IEC certificate x. Other relevant information on traceability of solar cells and module as per ISO 9001. d. RATING STICKERS All individual modules shall be provided with Rating Sticker label at the back of module which shall provide the information given below for identification. They shall be clearly visible and shall not be hidden by equipment wiring. Type of labels and fixing of labels shall be such that they are not likely to peel off/ fall off during the life of the panel. 1. Manufacturer's Name 2. Model Number 3. Overall Dimensions (W x L x D) 4. Weight (kg) 5. Maximum Power (Pmax) , Voltage (Vmp), Current (Imp) 6. Short Circuit Current (Isc), Open Circuit Voltage (Voc) 7. Main System Voltage 8. Relevant standards, Certification lab. name 9. Warnings, if any		



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4.0 FUNCTIONAL REQUIREMENTS

Sl No.	Item	Description
1	Product warranty	5 Years from the date of supply against manufacturing defects Free replacement against defects.
2	Product performance (power) warranty	Each Solar PV modules used in solar power plants/ systems must be warranted for their output peak watt capacity, which should not be less than 90% at the end of 10 years and 80% at the end of 25 years from the completion of the trial run. Free replacement against non-performance.
3	Grouping of PV Modules	PV Modules shall be grouped in power output bands (as per our instructions at PO placement) color sticker (20mm * 10 mm approx.) to be affixed on the module frames and outside packing box accordingly.
4	Packing	Modules to be packed in suitable carton box. Modules of the same group (colour band) to be packed in a box. Same colour code sticker (100*100 mm) shall be affixed on the carton box. The carton box should display the manufacturer's name, number of modules, Serial number, Power Output, etc.
5	Quality Assurance	
5.1	Pre-dispatch inspection by BHEL/ Customer at Vendor's works	BHEL/Customer shall carry out Pre-dispatch inspection (Visual and Electrical) of every lot at vendor's works.
5.2	Performance of SPV module at STC	1) Test Report: 300 Wp (minimum). Shall be inspected/ verified at vendor's works under STC by BHEL/Customer. 2) Sun simulator should be calibrated by a reference PV Module to be tested by MNRE/UL India/TUV Rheinland India/other reputed test lab as per IEC guidelines. Sampling Plan for Inspection by BHEL/Customer at Vendor's works General Inspection Level II and AQL 1.5% as per IS 2500 Part 1
5.3	Visual Characteristics	Each PV module shall be free from the following visual defects: Cell breakage/cracks, Air bubbles or de-lamination, Cells overlapping one another or cells touching the edge frame, scratches on the frame and/or glass, Excessive or uneven glue marks on glass or frame, Inconsistent cell colors. The module shall be complete in all respects. Sampling Plan for Inspection by BHEL/Customer at Vendor's works General Inspection Level II and AQL 1.5% as per IS 2500 Part 1
5.4	IR-HV-IR test	Check the insulation between the shorted terminals of junction box and aluminum frame at 1000 V DC before and after HV test. Test Module to withstand High Voltage of 3000V dc as per IEC 61215. Apply 3000 V DC for 1 minute between the shorted terminals of junction box and aluminum frame. There should not be any di-electric break down. Sampling Plan for Inspection by BHEL/Customer at Vendor's works Special Inspection Level S-2 and AQL 1.5% as per IS 2500 Part 1

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Sl No.	Item	Description
5.5	Incoming material checks, in-process checks	Checks on bought out items and In-process checks shall be carried out as per internal standards of the manufacturer
5.6	Reliability Tests	Insulation, Robustness of Terminations and Mechanical Load test as per IEC 61215 Sampling Plan for Inspection by BHEL/Customer at Vendor's works Robustness of terminations on 1 sample per offered lot Mechanical load test on 1 sample per offered lot

Sl. No.	Particulars	Bidder's Confirmation Please indicate deviations, if any.
1.	Confirmation to BHEL Specification PS- 439-329 in totality	

**Note: 1. Any deviation from the above specifications shall be clearly brought out by the supplier.
2. Documents required are to be attached along with the offer.**

Signature of Tenderer with stamp

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		 <p>बि एच ई एल A4-11</p>	<p>PURCHASE SPECIFICATION</p> <p>GROUP: PHOTOVOLTAICS</p>	<p>Spec. No</p>	<p>PS- 439- 329</p>
		<p>5.0 GENERAL CONDITIONS</p>			
<p>COPYRIGHT AND CONFIDENTIAL The information on this document is the property of Bharat Heavy Electricals Ltd. It must not be used directly or indirectly in anyway detrimental to the interest of the company.</p>		<ol style="list-style-type: none"> 1. PV Modules shall be manufactured at the vendor's works only. 2. Manufacturing clearance shall be given only after approval of manufacturing quality plan, approval of drawings and datasheet and after sample PV Module approval. 3. Any additional tests/type tests required by BHEL/BHEL's customer shall be complied and borne by the vendor. 			
		<p style="text-align: center;"><u>Details to be furnished along with the technical offer</u></p> <ol style="list-style-type: none"> 1. Valid IEC Test Certificate and Bill of material 2. A clause wise deviation, if any, has to be brought out clearly. If there are no deviations, the vendor has to positively certify compliance to the specifications in toto. 3. The complete technical information and catalogue shall be given. The bidder shall provide sample solar PV module electrical characteristics including current-voltage (I-V) performance curves and temperature coefficients of power, voltage and current. 			



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6.0 IEC TYPE TEST APPROVED BILL-OF-MATERIAL/ SUPPLIER LIST

Sl. No.	Item	Sub-Vendor Name (to be mentioned by PV Module supplier)
1.	Solar Cells	
2.	Front Glass	
3.	Fast cure EVA sheet	
4.	Back sheet	
5.	Interconnect & Busbars	
6.	Junction Box (4 terminals, 3 diodes)	
7.	Al. Frames	
8.	Frame Sealing, JB Potting	

Note:

1. Vendors shall source the above mentioned materials only from the approved Bill of Material corresponding to the approved IEC test certificate.

2. Sample PV Module approval required from BHEL before bulk manufacturing and supply.

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INTEGRITY PACT

Between

Bharat Heavy Electricals Ltd. (BHEL), a company registered under the Companies Act 1956 and having its registered office at “BHEL House”, Siri Fort, New Delhi – 110049 (India) hereinafter referred to as “The Principal”, which expression unless repugnant to the context or meaning hereof shall include its successors or assigns of the ONE PART

and

_____, (description of the party along with address), hereinafter referred to as “The Bidder/ Contractor” which expression unless repugnant to the context or meaning hereof shall include its successors or assigns of the OTHER PART

Preamble

The Principal intends to award, under laid-down organizational procedures, contract/s for

_____. The Principal values full compliance with all relevant laws of the land, rules and regulations, and the principles of economic use of resources, and of fairness and transparency in its relations with its Bidder(s)/ Contractor(s).

In order to achieve these goals, the Principal will appoint Independent External Monitor(s), who will monitor the tender process and the execution of the contract for compliance with the principles mentioned above.

Section 1 – Commitments of the Principal

- 1.1 The Principal commits itself to take all measures necessary to prevent corruption and to observe the following principles:-
 - 1.1.1 No employee of the Principal, personally or through family members, will in connection with the tender for, or the execution of a contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.
 - 1.1.2 The Principal will, during the tender process treat all Bidder(s) with equity and reason. The Principal will in particular, before and during the tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential / additional information through which the Bidder(s) could obtain an advantage in relation to the tender process or the contract execution.
 - 1.1.3 The Principal will exclude from the process all known prejudiced persons.
- 1.2 If the Principal obtains information on the conduct of any of its employees which is a penal offence under the Indian Penal Code 1860 and Prevention of Corruption Act 1988 or any other statutory penal enactment, or if there be a substantive suspicion in this regard, the Principal will inform its Vigilance Office and in addition can initiate disciplinary actions.

Section 2 – Commitments of the Bidder(s)/ Contractor(s)

- 2.1 The Bidder(s)/ Contractor(s) commit himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the tender process and during the contract execution.
 - 2.1.1 The Bidder(s)/ Contractor(s) will not, directly or through any other person or firm, offer, promise or give to the Principal or to any of the Principal's employees involved in the tender process or the execution of the contract or to any third person any material, immaterial or any other benefit which he / she is not legally entitled to, in

order to obtain in exchange any advantage of any kind whatsoever during the tender process or during the execution of the contract.

2.1.2 The Bidder(s)/ Contractor(s) will not enter with other Bidder(s) into any illegal or undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.

2.1.3 The Bidder(s)/ Contractor(s) will not commit any penal offence under the relevant IPC/ PC Act; further the Bidder(s)/ Contractor(s) will not use improperly, for purposes of competition or personal gain, or pass on to others, any information or document provided by the Principal as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.

2.1.4 The Bidder(s)/ Contractor(s) will, when presenting his bid, disclose any and all payments he has made, and is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract.

2.2 The Bidder(s)/ Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.

Section 3 – Disqualification from tender process and exclusion from future contracts

If the Bidder(s)/ Contractor(s), before award or during execution has committed a transgression through a violation of Section 2 above, or acts in any other manner such as to put his reliability or credibility in question, the Principal is entitled to disqualify the Bidders(s)/ Contractor(s) from the tender process or take action as per the separate “Guidelines for Suspension of Business Dealings with Suppliers/ Contractors” framed by the Principal.

Section 4 – Compensation for Damages

- 4.1 If the Principal has disqualified the Bidder(s) from the tender process prior to the award according to Section 3, the Principal is entitled to demand and recover the damages equivalent to Earnest Money Deposit/ Bid Security.
- 4.2 If the Principal has terminated the contract according to Section 3, or if the Principal is entitled to terminate the contract according to section 3, the Principal shall be entitled to demand and recover from the Contractor liquidated damages equivalent to 5% of the contract value or the amount equivalent to Security Deposit/Performance Bank Guarantee, whichever is higher.

Section 5 – Previous Transgression

- 5.1 The Bidder declares that no previous transgressions occurred in the last 3 years with any other company in any country conforming to the anti-corruption approach or with any other Public Sector Enterprise in India that could justify his exclusion from the tender process.
- 5.2 If the Bidder makes incorrect statement on this subject, he can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.

Section 6 – Equal treatment of all Bidders/ Contractors/ Sub-contractors

- 6.1 The Bidder(s)/ Contractor(s) undertake(s) to demand from his sub-contractors a commitment consistent with this Integrity Pact. This commitment shall be taken only from those sub-contractors whose contract value is more than 20% of Bidder's/ Contractor's contract value with the Principal.
- 6.2 The Principal will enter into agreements with identical conditions as this one with all Bidders and Contractors.
- 6.3 The Principal will disqualify from the tender process all bidders who do not sign this pact or violate its provisions.

Section 7 – Criminal Charges against violating Bidders/ Contractors /Sub-contractors

If the Principal obtains knowledge of conduct of a Bidder, Contractor or Subcontractor, or of an employee or a representative or an associate of a Bidder, Contractor or Subcontractor which constitutes corruption, or if the Principal has substantive suspicion in this regard, the Principal will inform the Vigilance Office.

Section 8 –Independent External Monitor(s)

- 8.1 The Principal appoints competent and credible Independent External Monitor for this Pact. The task of the Monitor is to review independently and objectively, whether and to what extent the parties comply with the obligations under this agreement.
- 8.2 The Monitor is not subject to instructions by the representatives of the parties and performs his functions neutrally and independently. He reports to the CMD, BHEL.
- 8.3 The Bidder(s)/ Contractor(s) accepts that the Monitor has the right to access without restriction to all contract documentation of the Principal including that provided by the Bidder(s)/ Contractor(s). The Bidder(s)/ Contractor(s) will grant the monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his contract documentation. The same is applicable to Sub-contractor(s). The Monitor is under contractual obligation to treat the information and documents of the Bidder(s)/ Contractor(s) / Sub-contractor(s) with confidentiality.
- 8.4 The Principal will provide to the Monitor sufficient information about all meetings among the parties related to the contract provided such meetings could have an impact on the contractual relations between the Principal and the Contractor. The parties offer to the Monitor the option to participate in such meetings.
- 8.5 As soon as the Monitor notices, or believes to notice, a violation of this agreement, he will so inform the Management of the Principal and request the Management to discontinue or

take corrective action, or heal the situation, or to take other relevant action. The Monitor can in this regard submit non-binding recommendations. Beyond this, the Monitor has no right to demand from the parties that they act in a specific manner, refrain from action or tolerate action.

8.6 The Monitor will submit a written report to the CMD, BHEL within 8 to 10 weeks from the date of reference or intimation to him by the Principal and, should the occasion arise, submit proposals for correcting problematic situations.

8.7 The CMD, BHEL shall decide the compensation to be paid to the Monitor and its terms and conditions.

8.8 If the Monitor has reported to the CMD, BHEL, a substantiated suspicion of an offence under relevant IPC / PC Act, and the CMD, BHEL has not, within reasonable time, taken visible action to proceed against such offence or reported it to the Vigilance Office, the Monitor may also transmit this information directly to the Central Vigilance Commissioner, Government of India.

8.9 The number of Independent External Monitor(s) shall be decided by the CMD, BHEL.

8.10 The word 'Monitor' would include both singular and plural.

Section 9 – Pact Duration

9.1 This Pact begins when both parties have legally signed it. It expires for the Contractor 12 months after the last payment under the respective contract and for all other Bidders 6 months after the contract has been awarded.

9.2 If any claim is made / lodged during this time, the same shall be binding and continue to be valid despite the lapse of this pact as specified as above, unless it is discharged/ determined by the CMD, BHEL.

Section 10 – Other Provisions

- 10.1 This agreement is subject to Indian Laws and jurisdiction shall be registered office of the Principal, i.e. New Delhi.
- 10.2 Changes and supplements as well as termination notices need to be made in writing. Side agreements have not been made.
- 10.3 If the Contractor is a partnership or a consortium, this agreement must be signed by all partners or consortium members.
- 10.4 Should one or several provisions of this agreement turn out to be invalid, the remainder of this agreement remains valid. In this case, the parties will strive to come to an agreement to their original intentions.
- 10.5 Only those bidders/ contractors who have entered into this agreement with the Principal would be competent to participate in the bidding. In other words, entering into this agreement would be a preliminary qualification.

For & On behalf of the Principal
(Office Seal)

For & On behalf of the Bidder/ Contractor
(Office Seal)

Place-----

Date-----

Witness: _____
(Name & Address) _____

Witness: _____
(Name & Address) _____
