



**Notice Inviting Quotation for Rate
Contract for the Supply of Solar PV
Modules at Various Locations in Kerala**

IL/RED/NIQ/2026-2027/RC/SPVM/003

Rev. No: 01

15.05.2026



Creating Infrastructure
A PPP INITIATIVE OF GOVERNMENT OF KERALA

**Notice Inviting Quotation for Rate Contract for the Supply of
Solar PV Modules at Various Locations in Kerala.**

Ref No: IL/RED/NIQ/2026-2027/RC/SPVM/003

**INKEL Limited,
Door No. 14/812 & 813 1st Floor,
Ajiyal Complex, Kakkanad, Cochin Kerala-682030
Phone: +91 484 2978101
Email: tenders.re@inkel.in**



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1. ABSTRACT

Title	Notice Inviting Quotation for Rate Contract for the Supply of Solar PV Modules at Various Locations in Kerala
Reference No:	IL/RED/NIQ/2026-2027/RC/SPVM/003
Mode of Application	Online via email to tenders.re@inkel.in
Date of release of EOI	15.05.2026
Last date & Time of submission of EOI	26.05.2026
Contact Details for clarification	Asst. Manager (RE) - 0484-2978101 Extn 505) DGM (RE) - 0484-2978101 (Extn 700) Email: tenders.re@inkel.in
Date and Time of opening of NIQ	27.05.2026

Interested Supplier/Manufacturer/Other Dealers shall download the NIQ documents from INKEL website (www.inkel.in) and submit the application for Rate Contract online on or before the deadline mentioned above.

Kakkanad
15-05-2026

S/d
Deputy General Manager - RE



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2. PREAMBLE

- 2.1. INKEL LIMITED (INKEL) is a public-private partnership (PPP) company promoted by Government of Kerala. INKEL is an innovative PPP initiative which brings together Government Agencies, prominent global investors, NRI Industrialists and businessmen. It is engaged in setting up sustainable infrastructure models to address all the infrastructure requirements of industrialists and entrepreneurs in the state of Kerala.
- 2.2. INKEL Ltd offers services ranging from Project Concept development to the Completion and Handing over stage covering Sectors like Construction, Road & Bridges, Development of Industrial/Business Park, Engineering Design and Consultancy, PMC, Advisory & Management Consultancy, Education and Skill development, Health & Hospitality, Power, Facilities Management, Hi-Tech Agro and Renewable Energy.
- 2.3. Renewable Energy is one of the core departments of INKEL Limited and is involved in the implementation of solar PV projects throughout Kerala.
- 2.4. INKEL is in requirement of Solar PV Modules for its projects in Kerala and is looking for a reputed supplier for the same.

3. ELIGIBILITY CRITERIA

The bidder must fulfil the following eligibility criteria.;

- 3.1. The bidder must be registered under GST.
- 3.2. The bidder must be Original Equipment Manufacturer (OEM) or Authorized Distributor/Dealer of Solar PV Modules. Further, the bidder shall clearly mention whether the offered solar modules are included in the latest Approved List of Models and Manufacturers (ALMM) issued by the Ministry of New and Renewable Energy (MNRE), Government of India, along with relevant supporting details/documents.
- 3.3. The OEM should have been in existence for at least 5 years as on the last date of submission.
- 3.4. The Solar PV Module manufacturer shall possess a minimum manufacturing capacity of 50 MWp per annum and shall have established in-house testing facilities along with a comprehensive quality assurance system to ensure



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IL/RED/NIQ/2026-2027/RC/SPVM/003

Rev. No: 01

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compliance with applicable BIS, IEC, and MNRE standards. A certificate regarding the same shall be attached.

3.5. In case the bidder is an OEM, the name of the bidder shall be listed in the latest ALMM list issued by MNRE.

3.6. Bidders should provide Audited Reports of last 2 years to prove their financial health and capability to handle large orders along with ITR reports.

3.7. The quoted modules should comply with BIS (Bureau of Indian Standards) and MNRE (Ministry of New and Renewable Energy) guidelines.

3.8. Bidders should provide warranty terms.

3.9. The Solar PV manufacturers shall have a minimum one number service assistance unit/ Service Partner in Kerala state.

The Supplier/Manufacturer/Other Dealers shall submit the Quotations/Price bids addressed to “Deputy General Manager-RE, INKEL Limited, 1st, Floor, Ajiyal Complex, Kakkanad, Cochin, Pin: 682030, Phone: 0484-2978101, 0484-2978103” and via E-mail “**tenders.re@inkel.in**”. The Price bid file should be password protected.

The last date for receipt of applications is **26.05.2026**

The bidder is required to submit all required documents as part of the bid. These documents must be submitted in password-protected files.

The password for the files must be shared separately and confidentially with the procurement authority or the designated contact person as per the instructions.

Note: Please sign and seal all the pages in the Notice Inviting Quotation and return the same.

- The quotation shall be valid for **6 months** from the date of opening of quotation. No correspondence would be made with the bidders once the quotation is submitted. The decision taken in the INKEL Committee will be final.
- Purchaser shall state the actual quantity to be supplied by the bidder in the Purchase Order. Purchaser reserves the right to reduce or increase the quantity of purchase as required without change in the agreed rate.



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- INKEL Ltd reserves the right to modify/cancel any or all quotations without assigning any reasons. Inkel shall issue the Purchase Order after consolidating the requirements and site locations. The Purchase Orders may be issued as multiple orders based on the consolidated requirements and site locations.

4. BID SUBMISSION CHECKLIST:

The bidder shall submit the following:

1. Technical Bids:

- 1.1. The entire NIQ signed and sealed as a token of acceptance of terms and conditions.
- 1.2. Copy of GST registration certificate.
- 1.3. Copy of Registration Certificate and PAN Card.
- 1.4. Documents to prove the annual Turnover of the bidder
- 1.5. Copy of Income Tax return
- 1.6. Certifications required for proving technical compliance (IS/IEC standards specified in technical specification.)
- 1.7. Company Profile
- 1.8. Data sheets & Test Certificates of the PV module/ modules
- 1.9. If the supplier/agency is not the manufacturer, A Manufacturer Authorization Form (MAF) from the manufacturer also has to be provided.
- 1.10. ALMM List with Highlighted Quoted Capacity

2. Price Bids:

- 2.1. Price Bid as per Appendix 3.

Sd/-
Managing Director



APPENDIX 1 - SCOPE OF SUPPLY AND TECHNICAL SPECIFICATION

1. SCOPE OF SUPPLY

- The scope of work includes the design, manufacture, testing, supply, packing, forwarding, transportation, insurance, and delivery of N-Type TOPCon Bifacial Solar PV Modules (minimum 560 Wp, both DCR and Non-DCR) to various project locations across Kerala, as specified in the Purchase Orders issued from time to time under the Rate Contract.
- This Rate Contract is intended for the procurement of a cumulative capacity of 1500 kWp, to be supplied at multiple sites as per requirement.
- Supply of PV Modules as per the specifications mentioned below having BIS Certifications. The Bidder has to Quote for Various Capacities of the below type of Modules & you have to attach a List of Modules along with capacity, Type & Model Number.

Sl No	Type of Module
01	Bifacial N-Type TOPCon Module (Glass to Glass) – Non-DCR
02	Bifacial N-Type TOPCon Module (Glass to Transparent)-Non-DCR
03	Bifacial N-Type TOPCon Module (Glass to Glass) - DCR
04	Bifacial N-Type TOPCon Module (Glass to Transparent)-DCR

- Purchaser shall state the actual quantity to be supplied by the Bidder in the Purchase Order. Purchaser reserves the right to reduce or increase the quantity of purchase as required without change in agreed rate.

2. Delivery Locations

Topcon bifacial solar PV modules with a minimum capacity of 560 Wp or above shall be supplied and delivered to various locations across Kerala, as specified in the Purchase Orders issued from time to time.”



Notice Inviting Quotation for Rate Contract for the Supply of Solar PV Modules at Various Locations in Kerala

IL/RED/NIQ/2026-2027/RC/SPVM/003

Rev. No: 01

15.05.2026

3. TECHNICAL SPECIFICATIONS

Sl No	Type of Module	Module Capacity	Standard
1	Bifacial N-Type TOPCon Module (Glass to Glass) – Non-DCR & DCR	560 Wp or above	As per MNRE standards 1. IS 14286 2. IEC 61215/ IS 14286 3. IEC 61701 4. IEC 61730-1,2
2	Bifacial N-Type TOPCon Module (Glass to Transparent)-Non-DCR & DCR	560 Wp or above	
3	Bifacial N-Type TOPCon Module (Glass to Glass) (Non-DCR) & DCR	580 Wp or above	
4	Bifacial N-Type TOPCon Module (Glass to Transparent) (Non-DCR) & DCR	580 Wp or above	

The general quality & specifications for the PV Module are detailed below:

- a. The PV modules shall be listed under the latest approved list of Approved List of Models and Manufacturers (ALMM) issued by MNRE from time to time.
- b. The PV modules must be PID compliant, salt, mist & ammonia resistant and should withstand weather conditions for the project life cycle.
- c. Anodized Aluminum module frames of sufficient thickness shall be used which are electrically & chemically compatible with the structural material used for mounting the modules having provision for earthing
- d. The junction boxes shall be IP67 rated and UV resistant. Bypass diodes shall be provided in the Junction box. 4 Sq.mm copper cable of 1.2Mtrs length with MC4 connectors shall be provided for interconnection of the PV Module.
- e. The rated power of solar module shall have only positive Power tolerance.
- f. The Efficiency of Solar Modules shall be greater than 20%.
- g. Shading correction/ bypass diode for optimizing PV out to be incorporated in each solar module or panel level.
- h. Each PV module used in any solar power project must use a RF identification tag (RFID) which must contain the following information. The RFID can be inside or outside the module laminate but must be able to withstand harsh environmental conditions.



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IL/RED/NIQ/2026-2027/RC/SPVM/003

Rev. No: 01

15.05.2026

- Name of the manufacturer of PV Module.
 - Name of the manufacturer of Solar cells.
 - Month and year of the manufacture (separately for solar cells and Modules).
 - Country of origin (separately for solar cell and module).
 - I-V curve for the module.
 - Peak Wattage, IM, VM and FF for the module.
 - Unique Serial No. and Model No. of the module.
 - Date and year of obtaining IEC PV module qualification certificate.
 - Name of the test lab issuing IEC certificate.
 - Other relevant information on traceability of solar cells and module as per ISO 9000 series.
- i. The following details should be provided on the module
- Name of the manufacturer.
 - Month and year of manufacturer.
 - Rated Power at STC.
 - VMP, IMP, VOC, Isc.
- j. The PV modules must qualify (enclose Test Reports/Certificates from IEC/NABL accredited laboratory) as per relevant IEC standard. The Performance of PV Modules at STC conditions must be tested and approved by one of the IEC/NABL Accredited Testing Laboratories.
- k. The PV modules shall conform to the following standards;
- IS 14286: Crystalline silicon terrestrial photovoltaic (PV) modules-design qualification and type approval.
 - IEC 61215 / IEC 61646: c-Si (IEC 61215): Crystalline silicon terrestrial photovoltaic (PV) modules – Design qualification and type approval Thin Film (IEC 61646): Design, Qualification & Type Approval.
 - IEC 61730-1: Photovoltaic Module safety qualification-Part1: Requirements for construction
 - IEC 61730-2: Photovoltaic Module safety qualification-Part2: Requirements for Testing.

- IEC 61701: Salt mist corrosion testing of photovoltaic modules.
- IEC 62716: Test Sequences useful to determine the resistance of PV Modules to Ammonia (NH₃)

1. The PV module should have IS14286 qualification certification for solar PV modules (Crystalline silicon terrestrial photovoltaic (PV) modules-design qualification and type approval).

m. Warranty:

- Product Warranty: Minimum 12 years against manufacturing defects
Performance Warranty: Minimum 30 years, with;
 - ≤ 1% degradation in first year
 - ≤ 0.4% annual degradation thereafter
 - Minimum 87% output at end of 30 years
- Original Equipment Manufacturers (OEM) Warrantee of the Solar PV Modules shall be submitted by the bidder.
- The Warranty Card must contain the details of Solar PV Modules including serial number.

n. Mechanical Specifications

- Front Glass: **High-transmission, low-iron tempered glass (≥ 3.2 mm)**
- Rear Side: Transparent backsheet or Dual glass (glass-to-glass modules preferred)
- Frame: Anodized aluminum alloy, corrosion-resistant
- Junction Box: **IP68 rated**, UV resistant
- Bypass Diodes: Minimum 3
- Cable:
 - UV resistant
 - Minimum **4 sq.mm copper cable**
 - Length ≥ 300 mm (or as per design)
 - MC4 compatible connectors



o. Mandatory Certifications

- BIS Certification as per MNRE requirements
- Modules must be listed in **MNRE ALMM (Approved List of Models & Manufacturers)**
- Test certificates from **NABL / IEC accredited laboratories**

p. Marking & Traceability

Each module shall have permanent markings:

- a. Manufacturer's name/logo
- b. Model number
- c. Serial number (unique & traceable)
- d. Year and country of manufacture
- e. Electrical characteristics at STC
- f. Barcode/QR code for traceability is preferred.

q. Packaging & Transportation

- a. Modules shall be securely packed to prevent:
 - Mechanical damage
 - Moisture ingress
- b. Packaging suitable for long-distance transport and multiple handling
- c. Clear labeling for:
 - Fragile material
 - Upright position
 - Supplier responsible for safe delivery up to site

r. Inspection & Testing

- a. **Pre-Dispatch Inspection (PDI):** May be carried out by client/authorized agency
- b. Any defective/damaged module shall be replaced at no extra cost



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4. LIST OF ANNEXURES TO BE ATTACHED ALONG WITH THE BID

1. Manufacturer registration certificate
2. GST registration Certification and PAN Card.
3. Undertaking stating that the company has not been blacklisted at any SNA/ DISCOM/ MNRE. (On the letterhead of the company.)
4. ALMM listing details.
5. Manufacturer plant certifications (ISO 9000/ 14000/ Any other).
6. Audited Balance sheets.
7. Brochures & Data Sheets of all Modules.
8. Manufactures Authorization letter in case the supplier is dealer/distributor.
9. List of PV Modules & capacities offered.

Make	Specification	Model Number	Wp Range	
			Minimum	Maximum



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APPENDIX-2- CONTACT FORM

Name of the Bidder	
Complete Office Address with Phone Number and E-mail ID	
Type of Ownership <i>(Copy to be attached)</i>	
GST No. <i>(Copy to be attached)</i>	
PAN <i>(Copy to be attached)</i>	
Year of Establishment <i>(Copy to be attached)</i>	
Name of Contact Person with Designation	
Mobile Number & E-mail ID of the Contact Person	

Name of Authorized Signatory:

Signature

Date:
Place

Official Seal



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IL/RED/NIQ/2026-2027/RC/SPVM/003

Rev. No: 01

15.05.2026

APPENDIX-3-VENDOR/SUPPLIER INFORMATION FORM

VENDOR/SUPPLIER INFORMATION FORM			Date:
Sl. No.	Description	Vendor/Supplier Response	
1	Name of the Vendor:		
2	Address:		
3	Type of Organisation:		
4	Factory Address:		
5	Turn Over in last three Financial Years: (Copies to be attached.)	2024-2025	2023-2024
6	Annual Production Capacity:		
7	Highest Wattage of SPV Module Currently Offered:		
8	ALMM Listing Status:		
9	BIS Certificate: (Copies to be attached.)		
10	List of Certificates/ Accreditations: (Copies to be attached.)		
Sign and Seal:			



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IL/RED/NIQ/2026-2027/RC/SPVM/003

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APPENDIX – 3- PRICE DETAILS:

(To be filled by bidder in the Letter head of the Company)

NIQ Ref No. IL/RED/NIQ/2026-2027/RC/SPVM/003 Dtd 15.05.2026

Sl. No.	Description	Configuration	Unit	Unit Rate (INR/Wp)	Total Amount (INR)
1	Supply of N-Type TOPCon Bifacial Solar PV Modules (≥ 540 Wp) – DCR	Glass-to-Glass	Wp		
2	Supply of N-Type TOPCon Bifacial Solar PV Modules (≥ 540 Wp) – DCR	Glass-to-Transparent (Backsheet)	Wp		

Sl. No.	Description	Configuration	Unit	Unit Rate (INR/Wp)	Total Amount (INR)
1	Supply of N-Type TOPCon Bifacial Solar PV Modules (≥ 540 Wp) – Non- DCR	Glass-to-Glass	Wp		
2	Supply of N-Type TOPCon Bifacial Solar PV Modules (≥ 540 Wp) – Non- DCR	Glass-to-Transparent (Backsheet)	Wp		

Bidder Name:

Signature

Official Seal

Date:

TERMS AND CONDITIONS:

The Price shall be inclusive of GST, all other taxes and duties, costs for Factory Acceptance tests, Packing charges, Transportation to site, Transit Insurance.



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IL/RED/NIQ/2026-2027/RC/SPVM/003

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PAYMENT TERMS:

1. 5% of the order value as advance against the submission of Proforma Invoice and signed agreement.
2. 20% will be released on completion of Pre-dispatch Inspection and ready for dispatch
3. Balance 75% will be released on delivery of material at site on acceptance & verification by INKEL representative.
4. Release of tax portion on receipt of original tax invoice, reflection of credit in the GST Portal and warranty certificates along with the serial Numbers.

Bidder Name:

Signature

Official Seal

Date: