



**Creating Infrastructure**  
A PPP INITIATIVE OF GOVERNMENT OF KERALA

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

**Ref No: IL/RED/NIQ/2026-2027/RC/INV/004**

**INKEL Limited**  
**Door No. 14/812 & 813 1st Floor,**  
**Ajiyal Complex,**  
**Kakkanad, Cochin Kerala- 682 030**  
**Phone: +91 484 2978101**  
**Email: tenders.re@inkel.in**



**Notice Inviting Quotation for Rate Contract for the Supply of Inverters at Various Locations in Kerala**

**IL/RED/NIQ/2026-2027/RC/SINV/004**

**Rev. No: 01**

**23.04.2026**

**1. ABSTRACT**

Title	<b>Notice Inviting Quotation for Rate Contract for the Supply of Inverters at Various Locations in Kerala.</b>
Reference No:	<b>IL/RED/NIQ/2026-2027/RC/INV/004</b>
Mode of Application	<b>Online via email to <a href="mailto:tenders.re@inkel.in">tenders.re@inkel.in</a></b>
Date of Publishing of Notice Inviting Quotations (NIQ)	<b>23.04.2026</b>
Last date & Time of submission of Bids	<b>14.05.2026</b>
Contact Details for clarification	<b>Asst. Manager (RE) - 0484-2978101(Extn 505) Manager (RE) - 0484-2978101 (Extn 509) Email: <a href="mailto:tenders.re@inkel.in">tenders.re@inkel.in</a></b>
Date and Time of opening of NIQ	<b>15.05.2026</b>

Interested Supplier/Manufacturer/Other Dealers shall download the NIQ from INKEL website ([www.inkel.in](http://www.inkel.in)) and submit the application for empanelment online on or before the deadline mentioned above.

**Kakkanad**  
**23-04-2026**

**S/d**  
**Deputy General Manager – RE**



**Notice Inviting Quotation for Rate Contract for the Supply of Inverters at Various Locations in Kerala**

**IL/RED/NIQ/2026-2027/RC/SINV/004**

**Rev. No: 01**

**23.04.2026**

## **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 Inverters for its projects in Kerala and is looking for a reputed supplier for the same.

## **3. ELIGIBILITY CRITERIA**

- 3.1. The bidder must fulfil the following eligibility criteria.;
- 3.2. The bidder must be registered under GST.
- 3.3. The bidder must be Original Equipment Manufacturer (OEM) of Grid-Connected Solar Inverters or Authorized Distributor or Dealer.
- 3.4. Bidders shall not be black listed or banned by INKEL or any other Govt. agencies/ Govt PSU's.
- 3.5. Bidders should provide warranty of Minimum 8 years.

The Supplier/Manufacturer/Other Dealers shall submit the Quotations/Price bids addressed to **“Deputy General Manager, INKEL Limited, 1st, Floor, Ajiyal Complex, Kakkanad, Cochin, Pin: 682030”**, Phone:0484-2978101, 0484-2978103 through E-mail [tenders.re@inkel.in](mailto:tenders.re@inkel.in).

The last date for receipt of applications is **14.05.2026**

The bidder is required to submit all required documents as part of the bid. Price bid



**Notice Inviting Quotation for Rate  
Contract for the Supply of Inverters  
at Various Locations in Kerala**

**IL/RED/NIQ/2026-2027/RC/SINV/004**

**Rev. No: 01**

**23.04.2026**

must be submitted as 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.
- 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 PAN Card.
- 1.4. The Bidder should have any of the following legal status:
  - Body incorporated in India under the Companies Act, 2013 including any amendment thereto; OR
  - Firm registered under Partnership Act, 1932 in India; OR
  - Sole Proprietor
- 1.5. Documents to prove the annual Turnover of the bidder (Audit Reports for the Financial Year 2023-24 & 2024-25)



**Notice Inviting Quotation for Rate  
Contract for the Supply of Inverters  
at Various Locations in Kerala**

**IL/RED/NIQ/2026-2027/RC/SINV/004**

**Rev. No: 01**

**23.04.2026**

- 1.6. Copy of Income Tax return of last 2 years.
- 1.7. Certifications required for proving technical compliance (IS/IEC standards specified in technical specification.)
- 1.8. Company Profile (Restricted to 5 pages)
- 1.9. Data sheets & Test Certificates of the Inverters for each model.
- 1.10. In case the bidder is a dealer, a valid Manufacturer Authorization Certificate (MAC) issued by the original manufacturer shall be submitted, authorizing the bidder to supply the specified materials.

Sd/-

Deputy General Manager



**Notice Inviting Quotation for Rate Contract for the Supply of Inverters at Various Locations in Kerala**

**IL/RED/NIQ/2026-2027/RC/SINV/004**

**Rev. No: 01**

**23.04.2026**

**APPENDIX 1 - SCOPE OF SUPPLY AND TECHNICAL SPECIFICATION**

**1. SCOPE OF SUPPLY**

The scope of work under this Notice Inviting Quotation (NIQ) includes the **design, manufacture, testing, supply, packing, forwarding, transportation, insurance, and delivery** of solar PV inverters to various project locations across Kerala, as specified in the Purchase Orders issued from time to time under the Rate Contract.

The detailed scope shall include, but not be limited to, the following:

- 1. Supply of Inverters:** Supply of grid-connected solar PV String inverters conforming to the technical specifications mentioned in the NIQ, including all standard accessories and components required for complete operation.
- 2. Standards & Compliance:** The offered inverters shall comply with relevant **MNRE/ BIS /IEC standards**, and all applicable statutory regulations. Necessary type test certificates and approvals shall be submitted.
- 3. Packing & Transportation:** Proper packing to ensure safe transit and delivery at site locations across Kerala. The bidder shall be responsible for transportation, transit insurance, loading, unloading, and safe delivery at site.
- 4. Documentation:** Submission of datasheets, test certificates, warranty certificates, operation & maintenance manuals, and any other relevant technical documents along with supply.
- 5. Warranty:** The inverters shall be covered under a comprehensive warranty (minimum 8 years or as specified), against manufacturing defects and performance issues.
- 6. Inspection & Testing:** INKEL reserves the right to inspect the materials at the manufacturer's works or at site. Necessary test certificates shall be furnished.
- 7. Delivery Schedule:** Supply shall be made as per the delivery timelines specified in individual Purchase Orders issued under the Rate Contract.
- 8. Rate Contract:** This NIQ is for entering into a Rate Contract. The estimated cumulative capacity required is 1500 KW, quantities indicated are tentative and may vary. 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. The total quantity of 1500 KW is cumulative of different sites.



**Notice Inviting Quotation for Rate Contract for the Supply of Inverters at Various Locations in Kerala**

**IL/RED/NIQ/2026-2027/RC/SINV/004**

**Rev. No: 01**

**23.04.2026**

**2. TECHNICAL SPECIFICATIONS**

<b>Sl. No.</b>	<b>Parameter</b>	<b>Specification Requirement</b>
1	Inverter Type	Grid-connected String Inverter
2	Rated Capacity	3 kW – 100 kW
3	<b>DC Input Parameters</b>	
3.1	Max DC Voltage	≥ 1000V
3.2	MPPT Voltage Range	Wide range (200V–850V or better)
3.3	No. of MPPTs	≥ 2 (higher preferred for higher ratings)
3.4	DC Inputs per MPPT	Multiple
3.5	DC Overloading	≥ 110%
4	<b>AC Output Parameters</b>	
4.1	Output Voltage	230V (1Ø) / 415V (3Ø)
4.2	Frequency	50 Hz
4.3	Power Factor	≥ 0.99 (adjustable)
4.4	THD	< 3%
5	<b>Efficiency</b>	
5.1	Maximum Efficiency	≥ 97.5%
5.2	European Efficiency	≥ 97%
6	<b>Protection Features</b>	
6.1	Anti-Islanding	Required
6.2	Reverse Polarity Protection	Required
6.3	Over/Under Voltage Protection	Required
6.4	Short Circuit Protection	Required
6.5	Over Temperature Protection	Required
6.6	Ground Fault Protection	Required
6.7	Surge Protection (SPD)	Type II (DC & AC)
6.8	Arc Fault Detection	Preferred
7	<b>Environmental</b>	
7.1	Operating Temperature	-10°C to +55°C
7.2	Humidity	Up to 95%



**Notice Inviting Quotation for Rate Contract for the Supply of Inverters at Various Locations in Kerala**

**IL/RED/NIQ/2026-2027/RC/SINV/004**

**Rev. No: 01**

**23.04.2026**

7.3	Protection Class	IP65 or better
8	<b>Monitoring &amp; Communication</b>	
8.1	Communication Ports	RS485 / Ethernet / Wi-Fi
8.2	Remote Monitoring	Required
8.3	Display	LCD/LED
9	<b>Mechanical</b>	
9.1	Mounting	Wall-mounted
9.2	Cooling	Natural / Forced Air
10	<b>Standards &amp; Certifications</b>	
10.1	IEC Compliance	IEC 62109 / 61727 / 61683
10.2	BIS Certification	Mandatory
10.3	MNRE Compliance	Required
11	<b>Warranty</b>	
11.1	Warranty Period	Min. 8 Years
11.2	Extended Warranty	Optional (10/20 years)
12	<b>Documentation</b>	Datasheet, Test Certificates, O&M Manuals

### **3. QUALITY ASSURANCE**

Quality Plan and Datasheet shall be subject to Purchaser's approval. Inverters shall be subject to pre-dispatch inspection by Purchaser, Client or any third party designated by Purchaser. Pre-shipment inspection by Purchaser/Client (Factory Acceptance Test) at Bidder's works will include: -

- Dimensional and Visual Check
- Electrical Tests for functionality and protection features
- MPPT tracker test
- AC under / over voltage test
- Under / Over frequency test
- THD measurement
- Efficiency measurement
- Hi Pot Test
- Any other test as required by customer



**Notice Inviting Quotation for Rate Contract for the Supply of Inverters at Various Locations in Kerala**

**IL/RED/NIQ/2026-2027/RC/SINV/004**

**Rev. No: 01**

**23.04.2026**

Successful bidder has to prepare and submit the Quality assurance plan to INKEL for Customer approval.

**4. WARRANTY**

- Inverter shall be warranted (ON- Site warranty) for minimum of 8 Years from the date of commissioning against all material or manufacturing defects and workmanship from the date of invoice.
- All costs for repair including transportation shall be paid by the vendor.
- Inverters that do not meet the above criteria shall be replaced/ repaired on site free of cost by Bidder/ Supplier.

**5. PACKING AND IDENTIFICATION**

The inverters shall be packed in carton boxes in road worthy packing. Inverters found damaged at the time of opening of the cartons in the project site shall be replaced by the vendor, free of cost at site within 07 days intimation by Purchaser in the absence of which provisions of Liquidated damages.

**6. GENERAL CONDITIONS**

- Inverters shall be manufactured at the factory of OEM for which PO is placed.
- Any additional tests/Type tests/Certification required by INKEL/Client shall be compiled.

**7. MANUFACTURING CLEARANCE APPROVAL PROCEDURE**

- The successful Bidder shall submit the Guaranteed technical Particular (GTP), Datasheet, Bill of Materials (BOM), General Arrangement Drawing and Quality assurance plan of the solar inverters for approval.
- Bidder shall provide test certificates corresponding to standards mentioned above along with complete test reports for proposed model of solar inverters from MNRE approved Laboratories.
- The Bidder shall submit a detailed manufacturing quality plan for Inverter with list of



**Notice Inviting Quotation for Rate Contract for the Supply of Inverters at Various Locations in Kerala**

**IL/RED/NIQ/2026-2027/RC/SINV/004**

**Rev. No: 01**

**23.04.2026**

checks/ tests performed during incoming material inspection, production, pre-dispatch and package

**APPENDIX - 2**

**GUARANTEED TECHNICAL PARTICULARS**

*(To be submitted for each model.)*

<b>Sl. No.</b>	<b>Parameter</b>	<b>Specification Requirement</b>	<b>Bidder's Offer</b>	<b>Compliance (Yes/No)</b>
1	Make & Model	To be specified by bidder		
2	Country of Origin	To be specified		
3	Inverter Type	Grid-connected String Inverter		
4	Rated Capacity	3 kW – 100 kW		
<b>5</b>	<b><i>DC Input Parameters</i></b>			
5.1	Max DC Voltage	≥ 1000V		
5.2	MPPT Voltage Range	Wide range (200V–850V or better)		
5.3	No. of MPPTs	≥ 2 (higher preferred for higher ratings)		
5.4	DC Inputs per MPPT	Multiple		
5.5	DC Overloading	≥ 110%		
<b>6</b>	<b><i>AC Output Parameters</i></b>			
6.1	Output Voltage	230V (1Ø) / 415V (3Ø)		
6.2	Frequency	50 Hz		
6.3	Power Factor	≥ 0.99 (adjustable)		
6.4	THD	< 3%		
<b>7</b>	<b><i>Efficiency</i></b>			
7.1	Maximum Efficiency	≥ 97.5%		
7.2	European Efficiency	≥ 97%		
<b>8</b>	<b><i>Protection Features</i></b>			
8.1	Anti-Islanding	Required		
8.2	Reverse Polarity Protection	Required		



**Notice Inviting Quotation for Rate Contract for the Supply of Inverters at Various Locations in Kerala**

**IL/RED/NIQ/2026-2027/RC/SINV/004**

**Rev. No: 01**

**23.04.2026**

8.3	Over/Under Voltage Protection	Required		
8.4	Short Circuit Protection	Required		
8.5	Over Temperature Protection	Required		
8.6	Ground Fault Protection	Required		
8.7	Surge Protection (SPD)	Type II (DC & AC)		
8.8	Arc Fault Detection	Preferred		
<b>9</b>	<b>Environmental</b>			
9.1	Operating Temperature	-10°C to +55°C		
9.2	Humidity	Up to 95%		
9.3	Protection Class	IP65 or better		
<b>10</b>	<b>Monitoring &amp; Communication</b>			
10.1	Communication Ports	RS485 / Ethernet / Wi-Fi		
10.2	Remote Monitoring	Required		
10.3	Display	LCD/LED		
<b>11</b>	<b>Mechanical</b>			
11.1	Mounting	Wall-mounted		
11.2	Cooling	Natural / Forced Air		
<b>12</b>	<b>Standards &amp; Certifications</b>			
12.1	IEC Compliance	IEC 62109 / 61727 / 61683		
12.2	BIS Certification	Mandatory		
12.3	MNRE Compliance	Required (if applicable)		
<b>13</b>	<b>Warranty</b>			
13.1	Warranty Period	Min. 5 Years		
13.2	Extended Warranty	10/15 years		
14	<b>Documentation</b>	Datasheet, Test Certificates, O&M Manuals		

**Note:** - GTP shall be submitted for each make & model offered by the Bidder.

Signature of Bidder with Stamp



**Notice Inviting Quotation for Rate  
Contract for the Supply of Inverters  
at Various Locations in Kerala**

**IL/RED/NIQ/2026-2027/RC/SINV/004**

**Rev. No: 01**

**23.04.2026**

**Appendix 3 – Price Bid  
(To be submitted in Letterhead)**

<b>Sl. No.</b>	<b>Description</b>	<b>Capacity Range</b>	<b>Unit Rate (₹)</b>	<b>GST (%)</b>	<b>Total with GST (₹)</b>
1	Supply of String Inverter				
2	Supply of String Inverter				
3	Supply of String Inverter				
4	Supply of String Inverter				
5	Supply of String Inverter				
6	Supply of String Inverter				
7	Supply of String Inverter				
8	Supply of String Inverter				

*Note: The bidder may submit prices for inverters ranging from 2 kW to 5 kW (single-phase) and from 5 kW up to the highest available capacity of the quoted make (three-phase), in accordance with the format provided above.*

**8. 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.



**Notice Inviting Quotation for Rate Contract for the Supply of Inverters at Various Locations in Kerala**

**IL/RED/NIQ/2026-2027/RC/SINV/004**

**Rev. No: 01**

**23.04.2026**

**9. PAYMENT TERMS:**

1. **5% of the purchase order value as advance** on acceptance of Purchase order and executing Agreement on Rs.500/- non-Judicial stamp paper and successful factory acceptance test.
2. **Balance 95% of the purchase order value** shall be released upon delivery of materials at site and acceptance & verification by INKEL representative in good condition.
3. 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: