



Jammu & Kashmir Energy Development Agency
(Department of Science & Technology, UT of J&K)

Expression of Interest (EoI)

(For Empanelment of vendors)

for

**Design, Supply, Installation and Commissioning including Warranty,
Comprehensive Maintenance Contract (CMC) for Five (05) years**

of

Grid Connected Solar Photovoltaic Power Plants

in

**Residential category in Jammu City of UT of J&K
under Jammu Solar City Mission**

EoI No.: ST/EDA/RTSPV-200MW/51/2024/1085

Dated: 15/03/2024

Issued by

Chief Executive Officer (CEO)

Jammu & Kashmir Energy Development Agency (JAKEDA)

(Dept. of Science & Technology, Govt. of J&K)

Tawanai Ghar, SDA Colony, Bemina, J&K-190018

38 A/B Gandhinagar, Jammu, J&K-180004

Phone No: - 0191-2546495 (J), 0194-2490269(S)

Email: ceojakeda2@gmail.com

Web: jakeda.in

1.0. The brief details of the tender/EoI are as under:

Table 1.A Tender/EoI Details

(A)	NAME OF WORK	Expression of Interest (EoI) for Design, Supply, Installation and Commissioning including Warranty, Comprehensive Maintenance Contract (CMC) for Five (05) years of Grid Connected Solar Photovoltaic Power Plants on Residential Buildings of Jammu City of J&K under Jammu Solar City Mission
(B)	EoI NO. & DATE	ST/EDA/RTSPV-200MW/51/2024/1085 Dated: 15/03/2024
(C)	COST OF BIDDING DOCUMENT	(Rs 20,000/- including GST) Rupees Twenty Thousand only in the form of DD favoring CEO JAKEDA. Bidders can download the EoI document from JAKEDA website www.jakeda.in . Submit the cost of the bid document/processing fee of requisite value as applicable along with hard copy of the tender document. Bid application without the cost of bid Document/ processing fee would be rejected.
(D)	Performance Bank Guarantee	Bidders who wish to apply for the EoI shall submit PBG of Rs. 2.5 lakhs in the form of CDR/FDR pledged to the Chief Executive Officer, J&K Energy Development Agency. This shall remain valid for a period of 5 years for a quantity of 100 kW project capacities. Thereafter for every additional quantity of 100 kW, the PBG of Rs. 2.5 lakhs needs to be resubmitted.
(E)	AVAILABILITY OF TENDER/ EoI DOCUMENT ON WEBSITE(S)	From 15-03-2024 on website www.jakeda.in
(F)	VALIDITY OF OFFER	Till the scheme is in vogue
(G)	Last Date of Submission of Documents	15-04-2024
(H)	CONTACT DETAILS OF TENDER DEALING OFFICER	Office of CEO JAKEDA Phone No : 0191-2546492 E-mail: ceojakeda2@gmail.com

In case of the days specified above happens to be a holiday in JAKEDA, the next working day shall be implied.

1. Bids must be submitted strictly in accordance with the instructions stated in the bidding document. This Notice is an integral and inseparable part of the bidding document.
2. The EoI Document calls for offers on single point from eligible bidders in total compliance of the Tender Document.
3. Any revision, clarification, corrigendum, time extension, etc. to this EoI Document will be hosted on the above mentioned website(s) only. Bidders are requested to visit the website regularly to keep themselves updated.
4. JAKEDA reserves the right to reject any or all the bids received at its discretion without assigning any reason whatsoever.

For & on behalf of JAKEDA

(Authorized Signatory)

Name :.....

Designation :.....

E-mail ID :

Contact No. :

Forwarding Letter

(to be submitted in the letter head of the Bidder)

Chief Executive Officer
JAMMU AND KASHMIR ENERGY DEVELOPMENT AGENCY
38A/B Gandhi Nagar, JAMMU, J&K-180004

Subject:- Submission of EoI for Empanelment for Site Survey, Design, Supply, Erection and Commissioning including Warranty, Comprehensive Maintenance Contract (CMC) for Five (05) years of Grid Connected Rooftop Solar Photovoltaic Power Plants in the Residential sector under Jammu Solar City Mission.

Ref: EoI NO: ST/EDA/RTSPV-200MW/51/2024/1085 Dated: 15/03/2024

Sir,

Having studied the EoI carefully I/we, the undersigned, offer to submit our EoI for Site Survey, Design, Supply, Erection, Testing and Commissioning including Warranty, Comprehensive Maintenance Contract (CMC) for Five (05) years of Grid Connected Rooftop Solar Photovoltaic Power Plants in the capacity Range of 1 to 10 kWp as per technical specifications of MNRE, GoI.

We have read the provisions regarding Design, Supply, Installation and Commissioning including Warranty, Comprehensive Maintenance Contract (CMC) for Five (05) years of Solar Photovoltaic Power Plants I/We have also read the various provisions of the EoI and confirm that the same are acceptable to us. We further declare that any additional conditions, variations, deviations, if any, found in our EoI offer shall not be given effect. We further understand that any deficiency / illegibility in documents shall make our EoI liable for rejection.

I/we submit our EoI, understanding fully well that :-

(a) The EoI and other documents submitted along with the same will be subject to verification by appropriate authorities.

(b) JAKEDA reserves the right to accept or reject any application or the EoI process itself without assigning any reasons thereof and shall not be held liable for any such action.

(c) All acts, rules, regulations, norms and conditions of Govt. of India and Govt. of Jammu and Kashmir shall be applicable during the process of EoI. We hereby declare that all the information and statements made in this proposal are complete, true and correct and also accept that any misinterpretation contained in it may lead to our disqualification.

We hereby declare that our EoI is made in good faith and the information contained is true and correct to the best of our knowledge and belief.

Yours faithfully,

Signature of Firm/Vendor authorized representative.

1. Background :

- 1.1 MNRE has launched a scheme for promotion of Grid Connected Rooftop Solar PV projects. The generated solar power may be utilized for captive application and the surplus power, if any, may be fed to the grid on Net Metering basis. The scheme aims to reduce the consumption of fossil fuel based electricity and make buildings self-sustainable from the point of energy consumption, to the extent possible.
- 1.2 This scheme with aggregate Solar capacity in UT of J&K envisages installation of grid-connected rooftop solar PV projects on the roofs/premises of domestic consumers of Jammu City of UT of J&K.

Category	Coverage of Buildings
Residential	All types of residential buildings

- 1.3 The interested firms/vendors who fulfill the formalities as specified in the EoI, shall be empaneled with JAKEDA. The tenure of empanelment shall be till the validity of the scheme.
- 1.4 Central Financial Assistance/UT share/ Beneficiary Share for Residential Sector shall be as per the following table:

Rate (in Rs) for Rooftop Solar Power Plants under "Jammu Solar City Mission"					
Project Capacity	Project cost	J&K UT Subsidy	MNRE Subsidy	Beneficiary Share	Net Subsidy %
1 kW	58739	14685	23496	20558	65
2 kW	107990	26998	43196	37796	65
3 kW	157781	39445	63112	55224	65
4 kW	205236	51309	71833	82094	60
5 kW	256545	64136	82094	110315	57
6 kW	307854	76964	92356	138534	55
7 kW	359163	89791	102618	166754	53.6
8 kW	410472	102618	112880	194974	52.5
9 kW	461781	115445	123142	223194	51.7
10 kW	513090	128273	133403	251414	51

1.5 Online Applications may be submitted on the Portal at <https://jk.ahasolar.in>

2. ELIGIBILITY CRITERIA:

2.1 General

The bidder should either be a body incorporated in India, under the Companies Act, 1956 or Companies Act, 2013 including any amendment there to and engaged either in manufacturing and or as a system integrator in the business of Solar Power, OR under the Limited Liability Partnership Act 2008, proprietorship and Partnership Firm engaged in the business of Solar Power /Solar Plant System Integrators. A certified copy of the registration certificate of the Bidder for any of the above and the requisite tax payee number TIN & GST etc. from competent government authority with whom the bidder is registered shall be enclosed with the tender.

2.2 Technical Criteria

2.2.1 The bidder must have experience of having successfully completed works for Supply, Installation and Commissioning of Grid Connected/ Off Grid Solar Photovoltaic Power Plants

OR

Shall be technically Sound firm having relevant engineering background team as member of the firm or having five (5) years' experience in the Solar field, however their empanelment would be made after proper assessment by JAKEDA.

2.2.2 The bidder should have an experienced technical team which includes a team leader.

2.3 Supporting Documents to be submitted

2.3.1 A certified copy of the registration certificate and the requisite tax payee number TIN & GST.

2.3.2 In support of technical criteria

- a) Copy of Contract(s) / Work order(s) with copy of relevant pages of the scope of work with documentary evidence of works executed.
- b) Copy of completion/ commissioning certificate(s)/ proof of completion/commissioning of the said work(s) along with documentation establishing completion of work by the bidder with reference to work order(s) / contract(s). The bidders must submit the completion certificate issued by end user / owner only after completion of work / supply in all respect.
- c) The Same would be exempted for New Entrepreneurs/ Start-ups/ Technically sound firms.

2.3.3 In support of Financial Criteria

- a) The Bidder shall provide a copy each of audited annual report to ascertain their

turnover.

- b) The detailed financial criteria of the bidder should be given on a separate page authenticated by the Chartered Accountant
- c) For Start-ups, technically sound firms, the same is exempted.

3 EoI Conditions

- a) No extra amount than the than the rates indicated in above table as per Capacity indicated shall be charged.
- b) In case any of complain verbally or in written received that additional amount has been charged, the empaneled vender would immediately be removed from the vendor list and his PBG shall be encashed.
- c) The Firms are allowed to offer discount(s) on the rates as mentioned above to attract more beneficiaries.
- d) In the event of installation of grid tied hybrid inverters with battery backups, additional amount on account of cost of Batteries and differential cost between grid-tied and hybrid inverters will be payable by the consumer, on submission of proper receipts/bills by the vendor. No other amount, in addition to the above, shall be charged by the vendor.
- e) In case, JAKEDA feels to empanel more vendors, because of huge demand of solar installation and to achieve a target of 200 MW, additional vendors shall be empanelled at a later stage on the discretion of CEO, JAKEDA.
- f) In case, the empanelled Vendors are not executing the projects in a fast pace, JAKEDA has all rights to cancel their empanelment.

4 Scope of Work:

The Bidder should act for providing an End-to-End solution for their identified locations including but not limited to Site survey, design, supply of the required Solar Photovoltaic power plant, with all accessories, grid tied inverter (Hybrid in case of battery backup), Batteries (optional), a bidirectional meter, peripherals like cables, junction boxes, earthing, etc. and applicable warranty etc. and its installation and successful commissioning. The empanelled vendors have to ensure planning and smooth execution of the project immediately within 30 days after collection of required amount against proper receipt from the prospective beneficiary. If the work is not satisfactorily executed as per the MNRE guidelines, the empanelment of the vendor shall be cancelled and the PBG would be encashed.

The vendor has following responsibilities:

- a) Providing the Net-meter and facilitating its installation through JPDCL/KPDCL as per the guidelines of JERC. In case of installation of Smart meter by the JPDCL/KPDCL, the vendor has to facilitate the consumer in enabling activation of bi-directional feature of the Smart meter.
- b) Supply of complete system (BOQ) as per technical specifications given by MNRE, GoI specifications / appropriate IS standards. The details are also given in this EOI.
- c) It is responsibility of the empanelled Firm/vendor to facilitate submission of the data on designated portal software of MNRE as well as submission of the Subsidy documents of proposal for obtaining the CFA/UT subsidy in prescribed format as per the MNRE guidelines on the relevant Portal.

- d) Installation of the supplied systems and commissioning of the same as per the prevailing electrical norms on the rooftops within the premises of the beneficiaries. The date of commencement of CMC shall be reckoned from the date of commissioning of the system.
- e) The beneficiary shall be made aware about the use of system. Instruction and safety manual of RTS system, in English or Hindi languages should be provided to each beneficiary.
- f) The successful Empanelled Vendor shall after completion and commissioning of the systems submit all details in the formats supplied by JAKEDA from time to time.
- g) Providing all necessary protection devices to protect the power plant from lightening, sudden surges in voltage and current and to ensure safety of the grid to which the plant is connected to ensure protection of life and property likely to be endangered due to the installed solar power plant.
- h) Empanelled Vendor shall adhere to safety standards, reliability, operability & maintainability aspects, metering arrangement as per the standards, norms and regulations specified/notified by JERC for UT of J&K.

5. OTHER COMPLIANCES:-

- a) While installing solar power plants on rooftops the physical condition of the roof should be taken in to consideration.
- b) There should not be any damage what so ever to the rooftop due to installation of the solar power plant so that on a later day there is leakage of rain water, etc. from the rooftop.
- c) In case small damages are inevitable for erecting the footings for the module mounting structure etc. the roof top may be given a suitable grading plaster with suitable leak proof compound so as to render the roof entirely leak proof.
- d) If the rooftop does not have any access such as stairs or Ladder, a proper and safe ladder must be provided to ensure easy access to the roof top mainly for the purpose of maintenance and inspection.
- e) While cabling the array care must be taken such that no loose cables lie on the rooftops. The roof top should look clean and tidy after installation of the array. Inverter shall be fixed in a prominent place.

6. TECHNICAL SPECIFICATIONS

The proposed projects shall be commissioned as per the technical specifications given below. Any shortcomings will lead to cancelation of empanelment as decided by CEO, JAKEDA. Domestic Modules and cells are to be used failing which it will be assumed that system is not matching the requirement of the scheme and Bidder's PBG shall be forfeited. Competent Authority's decision will be final and binding on the Bidder.

- I. A Roof Top Solar (RTS) Photo Voltaic (PV) system shall consist of following equipment/components:
 1. Solar Photo Voltaic (SPV) modules consisting of required number of Mono Perc halfcut OR - Mono Perc halfcut bifacial modules of DCR content as per approved list of ALMM are allowed to be used without any extra amount charged from the beneficiary.
 2. Inverter/PCU (IEC/BIS certified with RMS facility)
 3. Module Mounting structures (Galvanized Iron on flat roofs /Aluminium on sheet metal)
 4. Array Junction Boxes
 5. DC Distribution Box
 6. AC Distribution Box
 7. Protections – Earthing, Lightning, Surge
 8. Cables (UV protected)- as per requirement of site

- 9. Drawing & Manuals
- 10. Miscellaneous

II. DRAWINGS& MANUALS:

- a. Operation & Maintenance manual/user manual, Engineering and Electrical Drawings shall be supplied along with the power plant.
- b. The manual shall include complete system details such as array lay out, schematic of the system, inverter details, working principle etc.
- c. The Manual should also include all the Dos & Don'ts of Power Plant along with Graphical Representation with indication of proper methodology for cleaning, Operation and Maintenance etc.
- d. Vendors should also educate the consumers during their CMC period of 5 yeras

III. Miscellaneous:

- a) Connectivity: The maximum capacity for interconnection with the grid at a specific voltage level shall be as specified in the JERC regulation for Grid connectivity and norms of DISCOM and amended from time to time.
- b) Safety measures: Electrical safety of the installation(s) including connectivity with the grid must be taken into account and all the safety rules & regulations applicable as per Electricity Act, 2003 and CEA Safety Regulation 2010 etc. must be followed.
- c) Shadow analysis: The shadow analysis report with the instrument such as Solar Pathfinder or professional shadow analysis software of each site should be provided and the consumer should be educated to install the system only in shadow free space. Lower performance of the system due to shadow effect shall be liable for penalty for lower performance.
- d) Firefighting system - Portable fire extinguishers/sand buckets shall be provided wherever required as per norms (for capacities above 10 KW).

NOTE: All materials shall be of the MNRE, GoI approved quality, new and unused and be capable of satisfactory operation when exposed to the local atmospheric conditions.

**Format of Declaration from vendor Required for Rooftop Solar Installer Vendor
Enlistment for National Portal for Rooftop Solar**

Sl. No.	Particulars	Details/Remarks
1	Name of the Firm	
2	Legal Status of the Firm (Ltd/Pvt/Proprietary/Partnership/LLP)	
3	GST Registration number	Copy attached (Yes/No)
4	PAN Number	PAN No.: Copy attached (Yes/No)
5	PF Registration Number, If applicable	If Applicable Copy Attached (Yes/No)
6	Electrical Contractor License, If applicable	Copy Attached (Yes/No)
7	ESI Registration Number, If applicable	If Applicable Copy Attached (Yes/No)
8	The Firm fulfils all statutory requirements, for example those relating to electrical safety, to install rooftop solar plants.	(Yes/No)
9	The Firm will install rooftop solar plants fulfilling minimum technical standards and specifications issued by the MNRE and and specifications mentioned in this Document	(Yes/No)
10	The Firm will provide comprehensive maintenance of the rooftop solar plant installed by the Firm for at least 5 years.	(Yes/No)
11	The Firm will provide all necessary information related to installation of rooftop solar plants and Do's and Don'ts to the beneficiary.	(Yes/No)
12	The Firm will also provide name, contact number and e-mail of the person where the beneficiary can register a complaint related to rooftop solar plants installed by the Firm. This detail will also be made available to the State authorities and MNRE	Copy to be attached on letter head (Yes/No)
13	In case of any discrepancy in terms of quality and services provided by the Firm, the concerned distribution company/Electricity Department can blacklist the Firm and encash the performance bank guarantee, apart from taking other legal actions.	(Yes/No)
14	The Firm has sufficient (at least three) technical manpower trained in the skills required to execute the work of installation of rooftop solar plants.	(Yes/No)

15	The signatory of this declaration is authorised by the Firm and the Firm will abide by all the conditions mentioned above. In case of any misinformation or Concealment of facts, appropriate legal action may be taken against the Firm by the affected parties.	
16	Along with this declaration, the Firm is submitting a performance bank guarantee of Rs. 2.5 lakh valid for five years.	As per attached copy Performance Bank Guarantee Number, Value, Issuing date, Validity till which date to be entered

Authorised Signatory

Name:

Designation:

Name of the Firm:

Format of Declaration from vendor

1. Name of the Firm _____
2. Legal status of the Firm (Ltd/Pvt/Proprietary/Partnership/LLP) _____.
3. GSTIN number of the Firm _____
4. PAN number of the Firm _____.
5. Provident Fund number of the Firm (if applicable) _____
6. The Firm has sufficient technical manpower trained in the skills required to execute the work of installation of rooftop solar plants.
7. The Firm fulfils all statutory requirements, for example those relating to electrical safety, to install rooftop solar plants.
8. The Firm will install rooftop solar plants fulfilling minimum technical standards and specifications issued by the MNRE.
9. The Firm will provide comprehensive maintenance (CMC) of the rooftop solar plant installed by the Firm for at least 5 years.
10. The Firm will provide all necessary information related to installation of rooftop solar plants and Do's and Don'ts to the beneficiary.
11. The Firm will also provide name, contact number and e-mail of the person where the beneficiary can register a complaint related to rooftop solar plants installed by the Firm. This details will also be made available to the State authorities and MNRE.
12. In case of any discrepancy in terms of quality and services provided by the Firm, the concerned distribution company/Electricity Department can blacklist the Firm and encash the performance bank guarantee (PBG), apart from taking other legal actions.
13. The signatory of this declaration is authorized by the Firm and the Firm will abide by all the conditions mentioned above. In case of any misinformation or concealment of facts, appropriate legal action may be taken against the Firm by the affected parties.
14. Along with this declaration, the Firm is submitting a performance bank guarantee of Rs. 2.5 lakh valid for five years.
15. The Firm is willing to work in urban/rural areas of _____, _____, (name of districts).

Authorised Signatory
Name: _____
Designation: _____
Name of the Firm: _____