Request for selection (RfS) of Solar Rooftop Power Developers for setting up of cumulative capacity of 18.00 MW Grid connected Rooftop Solar PV Power Projects (Without battery storage) on Union Government buildings in the states of NCT of Delhi, Punjab, Rajasthan, Haryana, Uttar Pradesh, Bihar, Jharkhand, Madhya Pradesh, Chhattisgarh, Gujarat, Maharashtra, Goa, Kerala, Telangana, Andhra Pradesh Under RESCO/PPA Mode through Tariff –Based Competitive Bidding under "PM Surya Ghar: Muft Bijli Yojana"

RfS No. SJVN/RTS/2024-25/Rooftop Solar-5

Tender Search Code (TSC): SJVN-2024-TN000015



ISSUED BY:

SJVN Limited

(A Joint Venture of Govt. of India & Govt. of Himachal Pradesh) Contracts Section, RTS, 6th Floor, Tower No. 1, Office Block, NBCC Complex, East Kidwai Nagar, New Delhi-110023 Website: www.sjvn.nic.in, Email Id: <u>sjvnrts.contract@sjvn.nic.in</u> <u>CIN No. L40101HP1988GOI008409</u>

DISCLAIMER

- 1. Though adequate care has been taken while preparing the RfS document, the bidder(s) shall satisfy themselves that the document is complete in all respects. Intimation regarding any discrepancy shall be given by the prospective bidders to the office of SJVN Ltd immediately.
- 2. If no intimation is received from any bidder within 21 (Twenty-one) days from the date of issuance of RfS documents, it shall be considered that the document is complete in all respects and has been received/ acknowledged by the bidder(s).
- 3. SJVN Ltd. reserves the right to modify, amend or supplement RfS documents including all formats and annexures at any time before the Bid submission date. Interested Bidders are advised to follow and keep track of SJVN's website for updated information. SJVN Ltd. is not obligated to send/ communicate separate notifications for such notices/ amendments/ clarification etc. in the print media or individually. SJVN Ltd. shall not be responsible and accountable for any consequences to any party.
- 4. This RfS document has been prepared in good faith and on a best endeavour basis. Neither SJVN Ltd. nor their employees or advisors make any representation or warranty, express or implied, or accept any responsibility or liability, whatsoever, in respect of any statements or omissions herein, or the accuracy, completeness or reliability of the information, and shall incur no liability under any law, statute, rules or regulations as to the accuracy, reliability or completeness of this document, even if any loss or damage is caused by any act or omission on their part.
- 5. In case of any discrepancy in the documents uploaded on the websites of SJVN Ltd, ISN-ETS and CPPP, the documents uploaded on the ISN-ETS website will prevail.

Place: New Delhi

Date: 30.12.2024

SECTION 1:

INVITATION FOR BIDS

SECTION-I: INVITATION FOR BIDS

1.1 INTRODUCTION:

- **1.1.1** SJVN Limited (hereinafter referred to as "SJVN" is a Joint Venture of Govt. of India & Govt. of Himachal Pradesh and a Navratna CPSE under the administrative control of the Ministry of Power, Govt. of India.
- 1.1.2 This RfS document is in reference to the Guidelines issued vide office memorandum no 318/17/2024-Grid Connected Rooftop (Part 2) dated 03.07.2024 by MNRE for "operational guidelines for saturation of Government buildings with rooftop solar under PM-Surya Ghar: Muft Bijli Yojana in Government Buildings", including its subsequent changes, necessary amendment(s)/clarification(s), if any. The Ministry of New & Renewable Energy (MNRE), Govt. of India has identified & considered SJVN as a Scheme Implementation Partner (SIP) to facilitate the installation of Grid connected rooftop solar projects for solarisation of government buildings/assets pertained to 18 numbers of Union Ministries/Departments including their autonomous bodies, subordinate offices, CPSEs etc. spread in all over India in mission under PM Surya Ghar: Muft Bijli Yojana.
- 1.1.3 SJVN intends to implement the mandate for solarisation of Union Government Buildings pertains to the Ministry of Chemical and Fertilizers, Ministry of Agriculture and Farmers Welfare, Ministry of Commerce and Industry, Ministry of Women and Child Development of India, Ministry of Personnel, Public Grievances and Pensions, Ministry of Skill Development & Entrepreneurship, Ministry of Statistics and Programme Implementation, Ministry of Consumer Affairs, Food & Public Distribution in the states of Delhi, Punjab, Rajasthan, Haryana, Uttar Pradesh, Bihar, Jharkhand, Madhya Pradesh, Chhattisgarh, Gujarat, Maharashtra, Goa, Kerala, Telangana, Andhra Pradesh through tariff based competitive bidding under Renewable Energy Service Company (RESCO)/Power Purchase Agreement mode(PPA).
- 1.1.4 On behalf of autonomous bodies, sub ordinate offices, CPSEs etc. under administrative control of Ministry of Chemical and Fertilizers, Ministry of Agriculture and Farmers Welfare, Ministry of Commerce and Industry, Ministry of Women and Child Development of India, Ministry of Personnel, Public Grievances and Pensions, Ministry of Skill Development & Entrepreneurship, Ministry of Statistics and Programme Implementation, Ministry of Consumer Affairs, Food & Public Distribution Government of India, SJVN hereby invites proposals for Request for Selection (RfS) for Selection of Solar Rooftop Power Developers for Setting up of cumulative capacity of 18000 KW Grid connected Rooftop Solar Power Projects (Without battery storage) spread over in the states of Delhi, Punjab, Rajasthan, Haryana, Uttar Pradesh, Bihar, Jharkhand, Madhya Pradesh, Chhattisgarh, Gujarat, Maharashtra, Goa, Kerala, Telangana, Andhra Pradesh under RESCO/PPA mode through Tariff –Based Competitive Bidding under PM Surya Ghar: Muft Bijli Yojana.
- **1.1.5** The Bidders will be free to avail fiscal incentives like Accelerated Depreciation, Concessional Customs and Excise Duties, Tax Holidays etc. as available for above Roof Top Solar Projects.

The same will not have any bearing on the comparison of bids for selection. As equal opportunity is being provided to all bidders at the time of tendering itself, it is up to the bidders to avail various tax and other benefits. No claim shall arise on SJVN for any liability if bidders are not able to avail of fiscal incentives and this will not have any bearing on the applicable tariff/project cost. SJVN does not, however, give a representation on the availability of fiscal incentive and submission of bid by the bidder shall be independent of such availability or non-availability as the case may be of the fiscal incentives.

- **1.1.6** No Central Government Financial Assistance shall be provided under the solar rooftop scheme for Government buildings of Union Ministries / Departments.
- **1.1.7** Bidder shall be deemed to have examined the RfS, to have obtained information in all matters whatsoever that might affect the carrying out of works in line with the scope of work specified in the RfS at the Bid price and to have satisfied himself of the sufficiency of his Bid. The Bidder shall be deemed to know the scope, nature and magnitude of the works and requirement of materials, equipment, tools and labour involved, wage structures and what all works the Power Producer shall have to complete in accordance with the RfS, irrespective of any defects, omissions or errors that may be found in RfS. It is assumed that Bidder has satisfied himself with the site conditions at the Premises of Procurer and has assessed the quantum of work required to comply with the RfS and Power Purchase Agreement conditions.

1.2 *INVITATION FOR BIDS:*

1.2.1 On behalf of SJVN Limited, ONLINE e-Tender Enquiry under Single Stage Two Envelope Bidding Process (Technical Bid & Financial Bid) are hereby invited from the Rooftop Solar Power Developers (SPDs) who are meeting the Qualification Requirements (QR) stipulated at Section IV for "Request for Selection (RfS) for Selection of Solar Rooftop Power Developers for Setting up of cumulative capacity of 18000 kW Grid connected Rooftop Solar Power Projects (Without battery storage) spread over in the states Delhi, Punjab, Rajasthan, Haryana, Uttar Pradesh, Bihar, Jharkhand, Madhya Pradesh, Chhattisgarh, Gujarat, Maharashtra, Goa, Kerala, Telangana, Andhra Pradesh under RESCO/PPA mode through Tariff-Based Competitive Bidding under PM Surya Ghar: Muft Bijli Yojana."

Sr. No.	Description	
1.	RFS No.	SJVN/RTS/2024-25/Rooftop Solar-5
2.	RFS Date	30.12.2024
3.	Name of Work	 "Request for Selection (RfS) for Selection of Solar Rooftop Power Developers for Setting up of cumulative capacity of 18.00 MW Grid connected Rooftop Solar Power Projects (Without battery storage) spread over in the states of Delhi, Punjab, Rajasthan, Haryana,

1.3 BID INFORMATION SHEET:

		Uttar Pradesh, Bihar, Jharkhand, Madhya Pradesh, Chhattisgarh, Gujarat, Maharashtra, Goa, Kerala, Telangana, Andhra Pradesh under RESCO/PPA mode through Tariff –Based Competitive Bidding under PM Surya Ghar: Muft Bijli Yojana" 2. Projects will be set up under RESCO/PPA (Power Purchase Agreement) mode
4.	Mode of Tender	Open e-Tender (Single Stage two Envelope system).
5.	Tender Fee/Cost of RFS Document (Non- refundable)	Amount: INR. 5,900 /- (Five Thousand Nine Hundred Rupees only) including GST @18% to be submitted through NEFT/ RTGS transfer in the account of SJVN, along with the response to RfS.
7.	Earnest Money Deposit (EMD)	Amount: INR 1,000/kW (Rupees One Thousand only) per kW of the quoted capacity to be submitted in the form of Bank Guarantee/DD/Payment on Order /NEFT /RTGS along with the response to RfS. Single EMD to be submitted for total quoted Capacity.
8.	Performance Bank Guarantee	As per the RfS document.
9.	Document available for downloading.	As per NIT on ISN-ETS portal.
10.	Date and Venue of Pre-Bid Meeting	09.01.2025 at 15:00 Hrs Venue: Conference Room, SJVN Ltd., 6th Floor, Tower No.1, Office Block, NBCC Complex, East Kidwai Nagar, New Delhi- 110023 (In case of change in venue, the same shall be intimated separately OR through Video Conferencing (Link to the Pre-bid meeting is mentioned as below.) In case of change in venue, the same shall be intimated separately. MS Team Link: <u>https://teams.microsoft.com/l/meetup- join/19%3ameeting ZTRjZDc4OWItZjNmNy0</u> <u>ONTU1LWE1NGEtZWM3MTkwZDg5NjEy%</u> <u>40thread.v2/0?context=%7b%22Tid%22%3a</u> %22dadf9410-1403-4b2a-b1b7- <u>610589371a39%22%2c%22Oid%22%3a%220</u> <u>cb83c15-6d7b-441a-8603-</u> <u>bf5f629200a2%22%7d</u>

		Meeting ID: 461 786 126 944 Passcode: Zu3au7d5
11.	Last Date and Time for submission of Online Bids	20.01.2025 till 11:00 Hrs
12.	Last Date and Time for submission of Hard Copy of Documents	29.01.2025 by 18:00 Hrs
13.	Date & Time of Opening of Technical Bid	20.01.2025 at 15:00 Hrs
14.	Date & Time of Opening of Price Bids.	Shall be intimated to technically qualified bidders.
15.	e-Reverse Auction	Not applicable
15.	Period of Bid Validity	12 Months from the last date of submission of online bids.
16.	CONTACT DETAILS OF ISN- ETS PORTAL	M/s ISN Electronic-Tender Services Pvt. Ltd., Gurugram Contact Person: ISN-ETS Support Team Customer Support: +91-124-4229071, 4229072(From 10:00 Hrs to 18:00 Hrs on all working Days i.e. Monday to Friday except Govt. Holidays) Email: support@isn-ets.com
17	Registration & Electronic- Tender Service Portal Fee	To be paid by the bidder to M/s ISN Electronic-Tender Services Pvt. Ltd., Gurugram

AVAILABILITY OF RfS DOCUMENT:

- **1.3.1** The detailed RfS Document shall be available on the ISN-ETS Portal (https://www.bharatelectronictender.com) and on SJVN's website www.sjvn.nic.in (Home Page Tender Management (under Quick Links at the Bottom of Home Page) Location New Delhi).The Notice Inviting RfS shall also be available on CPP portal i.e. http://eprocure.gov.in/cppp/.
- **1.3.2** It is mandatory to download official copy of the RFS Document from Electronic Tender System (ISN-ETS) Portal to participate in the RfS.
- **1.3.3** In case of any Clarification (s)/ Amendment(s)/Addendum (s)/Corrigendum (s) to this RfS document, the same shall be issued on the websites www.sjvn.nic.in and ISN-ETS Portal

(<u>https://www.bharat-electronictender.com</u>). However, in case of any discrepancy, the information available on ISN-ETS website shall prevail.

1.3.4 Bidders are requested to remain updated for any notices/ amendments/ clarifications etc. to the RfS document through the above referred websites https://www.bharat-electronictender.com and www.sjvn.nic.in. No separate notifications shall be issued for such notices/ amendments/ clarifications etc. in the print media or any other media individually. Intimation regarding notification on the above shall be updated on www.sjvn.nic.in and the details will be available only from https://www.bharat-electronictender.com.

1.4 BID SUBMISSION:

- **1.4.1** A Single Stage, Two-Envelope Bidding Procedure will be adopted and will proceed as detailed in the RfS Documents. Bidding will be conducted through the competitive bidding procedures as per the provisions of this RfS. The respective rights of SJVN and the Bidder/SPD shall be governed by the RfS Documents/Agreement signed between SJVN and the SPD for the package.
- **1.4.2** Interested bidders have to necessarily register themselves on the e-tendering portal https://www.bharat- electronictender.com ("ETS portal") through M/s Electronic Tender (India) Pvt Ltd to participate in the bidding under this invitation for bids. It shall be the sole responsibility of the interested bidders to get themselves registered at the aforesaid portal for which they are required to contact M/s Electronic Tender (India) Pvt. Limited, New Delhi to complete the registration formalities. Contact details of ISN-ETS is mentioned on the Bid Information Sheet. All required documents and formalities for registering on ISN- ETS are mentioned in the subsequent RFS documents. The registration & electronic portal fee shall be paid by bidder, as applicable.
- 1.4.3 Any bidder, who meets the Qualification Requirements and wishes to submit bid proposal against this RFS, may download the complete RFS document along with its amendment(s) and clarifications if any, from ISN-ETS Portal (<u>https://www.bharat-</u> electronictender.com) and submit its Bid complete in all respect as per terms & conditions of RFS Document on or before the due date/extended date of bid submission.
- **1.4.4** For proper uploading of the bid proposals on the ETS portal, it shall be the sole responsibility of the bidders to apprise themselves adequately regarding all the relevant procedures and provisions as detailed in the portal as well as by contacting M/s Electronic Tender (India) Pvt. Limited (ETI) directly, as and when required, for which contact details are also mentioned on the Bid Information Sheet. SJVN in no case shall be responsible for any issues related to timely or properly uploading/ submission of the bid in accordance with the relevant provisions of the Bidding Documents.
- **1.4.5** Bidders are required to submit their bid proposals strictly as per terms and conditions of the RFS documents and not to stipulate any deviations/ exceptions.
- **1.4.6** Bidders should submit their bid proposal complete in all respect on or before last date and time of Bid Submission as mentioned on ISN-ETS Portal (https://www.bharat-electronictender.com), SJVN website <u>http://www.sjvn.nic.in</u> and as indicated in the Bid

Information Sheet.

- 1.4.7 Bidder shall submit its bid / proposal along with non-refundable RfS Tender Fees & Earnest Money Deposit (EMD) complete in all respect as per the Bid Information Sheet. Bid proposals received without the prescribed Tender Fees and EMD will be rejected. In the event of any date indicated being declared a holiday, the next working day shall become operative for the respective purpose mentioned herein.
- **1.4.8** Not used.
- **1.4.9** SJVN reserves the right to cancel / withdraw / defer this invitation for bid proposal/RFS process at any stage without assigning any reason whatsoever and shall bear no liability whatsoever consequent upon such a decision. No bidder/indenting bidder shall have any claim arising out of such action.

1.5 FOR ANY ENQUIRY/ CLARIFICATION REGARDING THIS TENDER ENQUIRY, THE BIDDER MAY CONTACT:

1. Sh. Bhupinder Kr. Dhiman, (DGM, Contracts) Contact No. +91 9418457513

2. Sh. Rakesh Verma, (DGM, Technical), Contact No. +91 9818659069

3. Sh. Deependra Verma, (Manager), Contact No. +91 8894304429

4. Sh Rajinder Singh Rawat, (Dy. Manager) Contact No. +91 8894065950

1.6 CONTACT DETAILS OF ISN- ETS PORTAL

M/s Electronic Tender.com (India) Pvt. Ltd. Gurugram Contact Person: ISN-ETS Support Team, Customer Support: +91-124- 4229071, 4229072

(From 10:00 Hrs to 18:00 Hrs on all working Days i.e. Monday to Friday except Govt. Holidays) Email: support@isn-ets.com

1.7 RfS INVITING AUTHORITY

Deputy General Manager, Contracts RTS Section,

SJVN Ltd., 6th Floor, Tower No. 1, NBCC Office Complex, East Kidwai Nagar, New Delhi-110023, Ph. No.: +011-61901952

E-mail: <u>sjvnrts.contract@sjvn.nic.in</u>

Visit us at: www.sjvn.nic.in

----- END OF SECTION -----

SECTION II: DEFINITIONS

RFS for SRPD for Design, Supply, Installation, Testing and Commissioning including Warranty, Comprehensive O&M for cumulative capacity of 18 MW Grid Connected RTS Projects (without battery storage) on Union Government Buildings under PM Surya Ghar: Muft Bijli Yojana. (RFS No.: SJVN/RTS/2024-25/Rooftop Solar-5, TSC No. SJVN-2024-TN000015)

Page 10 of 137

SECTION-II: DEFINITIONS

Following terms used in the documents will carry the meaning and interpretations as described below:

- 2.1 "ACT" or "ELECTRICITY ACT, 2003" shall mean the Electricity Act, 2003 and shall include any modifications, amendments and substitution from time to time.
- **2.2 "AFFILIATE"** shall mean a company that, directly or indirectly,
 - i) controls, or
 - ii) is controlled by, or
 - iii) is under common control with, a company developing a Project or a Member in a Consortium developing the Project and control means ownership, directly or indirectly, of more than 50% (fifty percent) of the voting shares of such company or right to appoint majority Directors to the Board of Directors.
- **2.3 "B.I.S."** shall mean specifications of Bureau of Indian Standards (BIS).

2.4 NOT USED

- 2.5 "BID" or "PROPOSAL" shall mean the documents submitted by the Bidder towards meeting the qualifying requirements submitted by the Bidder alongwith all documents/credentials/attachments/annexures etc. as part of its response to the RFS issued by SJVN.
- 2.6 "BIDDER" shall mean Bidding Company (including a foreign company) or a Bidding Consortium submitting the Bid. Any reference to the Bidder includes Bidding Company/ Bidding Consortium, Member of a Bidding Consortium including its successors, executors and permitted assigns and Lead Member of the Bidding Consortium jointly and severally, as the context may require; foreign companies participating in the bidding process shall be registered as companies as per the rules of their country of origin.
- 2.7 "BIDDING CONSORTIUM" or "CONSORTIUM" shall refer to a group of Companies or a combination of Company(ies) and Limited Liability, Partnership Firm(s) in which Lead Member must be a Company as defined in the clause2.12 of Section-II, that collectively submit the response in accordance with the provisions of this RfS under a consortium agreement.
- 2.8 "CAPACITY UTILIZATION FACTOR (CUF)" shall have the same meaning as provided in CERC (Terms and Conditions for Tariff determination from Renewable Energy Sources) Regulations, 2017 as amended from time to time. However for avoidance of any doubt, it is clarified that the CUF shall be calculated on the Contracted Capacity; In any Contract Year, if 'X' MWh of energy has been metered out at the Delivery Point for 'Y' MW Project capacity, CUF= (X MWh/(Y MW*8766)) X100%;.
- **2.9** "CEA" shall mean Central Electricity Authority.
- **2.10** "CHARTERED ACCOUNTANT" shall mean a person practicing in India or a firm whereof all the partners practicing in India as a Chartered Accountant(s) within the meaning of the Chartered Accountants Act, 1949.

For bidders incorporated in countries other than India, "Chartered Accountant" shall mean a person or a firm practising in the respective country and designated/ registered under the corresponding Statutes/ laws of the respective country.

- 2.11 "CLIENT ORGANIZATION" shall mean the entity under the administrative control of Central/Union Government Ministries/Departments, including autonomous bodies, subordinate offices, CPSEs, other units mentioned in this RfS etc.
- **2.12 "COMPANY"** shall mean a body corporate incorporated in India under the Companies Act, 1956/2013 or any law in India prior thereto relating to Companies, as applicable.
- 2.13 "CONTRACTED CAPACITY" shall mean the AC capacity in kW/ MW contracted with Client Organization / SIP for the supply of power by the SPD/Vendor to them at the Delivery Point from the Grid connected Rooftop Solar PV Project
- 2.14 CONTRACT YEAR" shall mean the period beginning from the Effective Date and ending on the immediately succeeding March 31 and thereafter each period of 12 months beginning on April 1 and ending on March 31 provided that the last Contract Year of this Agreement shall end on the last day of the Term of this Agreement.
- **2.15 "CONTROL"** shall mean the ownership, directly or indirectly, of more than 50% (fifty per cent) of the voting shares of such Company or the right to appoint majority Directors.
- **2.16 "CONTROLLING SHAREHOLDING"** shall mean more than 50% of the voting shares of the Company or the right to appoint majority Directors.
- 2.17 "DAY" shall mean a calendar day.
- **2.18 "DISCOM"** shall mean a Distribution Company, an intermediary company that connects power producers with households and acts as a link between utilities and end-user/consumers.
- 2.19 "EQUITY" shall mean Net Worth as defined in the Companies Act, 2013.
- 2.20 "GROUP COMPANY" of a Company means
 - i) a Company which, directly or indirectly, holds 10% (Ten Percent) or more of the share capital of the Company or;
 - ii) a Company in which the Company, directly or indirectly, holds 10% (Ten Percent) or more of the share capital of such Company or;
 - iii) a Company in which the Company, directly or indirectly, has the power to direct or cause to be directed the management and policies of such Company whether through the ownership of securities or agreement or any other arrangement or otherwise or;
 - iv) a Company which, directly or indirectly, has the power to direct or cause to be directed the management and policies of the Company whether through the ownership of securities or agreement or any other arrangement or otherwise or;
 - v) a Company which is under common control with the Company, and control means ownership by one Company of at least 10% (Ten Percent) of the share capital of the other Company or power to direct or cause to be directed the management and policies of such Company whether through the ownership of securities or agreement or any other arrangement or otherwise;

Provided that a financial institution, scheduled bank, foreign institutional investor, Non-

Banking Financial Company, and any mutual fund, pension funds and sovereign funds shall not be deemed to be Group Company, and its shareholding and the power to direct or cause to be directed the management and policies of a Company shall not be considered for the purposes of this definition unless it is the Project Company or a Member of the Consortium developing the Project.

- 2.19 "INSTALLED CAPACITY" shall mean the maximum installed DC capacity of Grid Connected Rooftop Solar PV Project
- **2.20** *INTER-CONNECTION POINT / DELIVERY/ METERING POINT*" shall be the single point, at a location mutually agreed by the SPD/Vendor and Client Organization / SJVN, in line with the applicable regulation / rules where Solar Power is delivered by the SPD/Vendor from the Project.
- **2.21** "JOINT CONTROL" shall mean a situation where a company has multiple promoters (but none of the shareholders has more than 50% of voting rights and paid up share capital).
- 2.22 *"LEAD MEMBER OF THE BIDDING CONSORTIUM"* or *"LEAD MEMBER"*: There shall be only one Lead Member, having the shareholding of not less 51% in the Bidding Consortium.

Note: The shareholding of the Lead member in the Project Company (Special Purpose Vehicle) cannot be changed until 01 (ONE) year after the Scheduled Commissioning Date (SCD) of the rooftop plant.

- **2.23** "LETTER OF AWARD" or "LoA" shall mean the letter issued by SJVN to the selected Bidder under this RfS.
- **2.24** "LIMITED LIABILITY PARTNERSHIP" or "LLP" shall mean a Company governed by Limited Liability Partnership Act 2008 or as amended.
- 2.25 "LLC" shall mean Limited Liability Company.
- **2.26** "MEMBER IN A BIDDING CONSORTIUM" or "MEMBER" shall mean each Company in a Bidding Consortium. In case of a Technology Partner being a member in the Consortium, it has to be a Company/ Limited Liability Partnership Firm (s)/Partnership firm.
- **2.27 "MONTH"** shall mean calendar month.
- **2.28** "NET METERING" means an arrangement for measurement of energy in a system under which rooftop solar PV system installed at eligible consumer's premises as per DISCOM scheme delivers surplus electricity, if any, to the Distribution Licensee after off-setting the electricity supplied by Distribution License during the applicable billing period.
- **2.29** "NET-WORTH" shall mean the Net-Worth as defined section 2 of the Companies Act, 2013.
- **2.30** "O&M/ AMC" shall mean Operation & Maintenance/ Annual Maintenance Contract of the supplied equipment/system.
- **2.31 "PAID-UP SHARE CAPITAL"** shall mean the paid-up share capital as defined in Section 2 of the Companies Act, 2013.
- **2.32 "PARENT"** shall mean a Company, which holds more than 50% voting rights and paid up share capital, either directly or indirectly in the Project Company or a Member in a Consortium

developing the Project.

- **2.33 "PPA"** shall mean the Power Purchase Agreement signed between the Successful SPD and Procurer according to the terms and conditions of the standard PPA enclosed with this RfS;
- 2.34 "PROJECT / PLANT" / "SOLAR POWER PROJECT"/ "POWER PROJECT / " shall mean Grid connected Rooftop Solar PV Project(s) installed on a single / group of buildings connected to the grid through a single or multiple meters or standalone system. The Project shall include all units / modules, auxiliaries and associated facilities, structures, equipment, plant and machinery, facilities and related assets required for the efficient and economic operation of the rooftop solar project.
- **2.35 "PROJECT CAPACITY"** shall mean the maximum AC capacity at the Delivery Point that can be scheduled on which the Power purchase Agreement shall be signed.
- **2.36 "PROJECT COMMISSIONING"**: The Project will be considered as commissioned if all equipment as per rated project capacity has been installed commissioned and energy has flown into grid, in line with the commissioning procedures defined in this RfS/PPA.
- **2.37 "PROJECT DEVELOPER" or "DEVELOPER"** shall mean the entity setting up the Solar Power PV Project.
- **2.38 "PROJECT SITE / SITE"** shall means Roof Top of Government Buildings belonging to Ministries / Departments (including autonomous bodies, sub ordinate offices, CPSEs, other unit etc.) of Union Government.
- **2.39 "PROMOTER"** shall mean Promoter as defined in the Companies Act, 2013.
- 2.40 "*RfS*" or "*RfS DOCUMENT*" or "*BIDDING DOCUMENT(S)*" or "*TENDER* DOCUMENTS" shall mean the "Request for Selections" document issued by SJVN vide RfS No. Datedand its subsequent clarifications and amendments thereof (if any).
- 2.41 "RESCO" shall mean Renewable Energy Service Companies.
- **2.42** "**RESCO MODEL**" or "**RESCO Mode**" This mode includes all installations in which a Capital Expenditure in the system has been made by third party other than the consumer, under an agreement with a Renewable Energy Service Company (RESCO). In such installations, the RESCO continues to own the assets, and the roof owner is compensated by the RESCO in return for the use of their roof. The RESCO sales power either to roof owner or to the DISCOM under a long term contractual agreement under a Power Purchase Agreement (PPA). The Project Developer is responsible for construction, commissioning, ownership, insurance and operation of the Project for the entire term of PPA at its own risk and cost.
- **2.43 "SCHEDULED COMMISSIONING DATE"** or **"SCD"** shall be the date as indicated in Clause 6.7.1 of the RfS.
- 2.44 "SJVN" shall mean SJVN Limited.
- 2.45 NOT USED
- **2.46** "SELECTED BIDDER" or "SUCCESSFUL BIDDER" shall mean the Bidder selected pursuant to this RfS.
- 2.47 "SIP" or "Scheme Implementation Partner" shall mean Central Public Sector Undertaking

(CPSEs) allocated on nomination basis to Central ministries/departments for assisting these ministries/departments in deploying rooftop solar power on their asset under "PM Surya Ghar: Muft Bijli Yojana".

- 2.48 "SOLAR PV PROJECT" shall mean the Solar Photo Voltaic Power Project that uses sunlight for direct conversion of solar energy into electricity through Photo Voltaic Technology.
- 2.49 "SOLAR PROJECT DEVELOPER" OR 'SPD" shall mean the entity setting up the Solar Power PV Project.
- 2.50 "TOE" shall mean Tender Opening Event.
- **2.51 "ULTIMATE PARENT"** shall mean a Company, which owns more than 50% (Fifty Percent) voting rights and paid-up share capital, either directly or indirectly in the Parent and Affiliates;
- 2.52 "WEEK" shall mean calendar week.

----- END OF SECTION ------

SECTION - III

INSTRUCTION TO BIDDERS

RFS for SRPD for Design, Supply, Installation, Testing and Commissioning including Warranty, Comprehensive O&M for cumulative capacity of 18 MW Grid Connected RTS Projects (without battery storage) on Union Government Buildings under PM Surya Ghar: Muft Bijli Yojana. (RFS No.: SJVN/RTS/2024-25/Rooftop Solar-5, TSC No. SJVN-2024-TN000015)

Page 16 of 137

SECTION III: INSTRUCTIONS TO BIDDER

3.1 OBTAINING RFS DOCUMENTS

Interested bidders have to download the official copy of RFS Document & other documents after login into the ISN-ETS portal by using the Login ID & Password created on ISN-ETS during registration (Refer Annexure - J). The bidder shall be eligible to submit/upload the bid document only after logging into the ISN-ETS portal and downloading the official copy of RFS. If only free copy of RFS documents are downloaded from ETS portal or RFS documents are downloaded without confirmation or without generating official copy serial number, then the bidders will not be able to submit the bids. For further assistance, please contact ETS help desk at +91 124-4229071, 124-4229072. Transfer of RFS documents downloaded by one intending bidder to another is not permitted.

3.2 COST OF DOCUMENTS:

3.2.1 Prospective Bidders interested to participate in the bidding process are required to submit their bid proposals in response to this RFS document along with a non- refundable RFS tender/document fee as mentioned in the Bid Information Sheet. A Bidder will be eligible to participate in the bidding process only on submission of entire financial amounts as per the **Bid Information Sheet**. Payments against RFS tender/document fee shall be done only through NEFT/RTGS/UPI (electronic transfer), and the Bidder shall submit the transaction receipt, as part of the online bid submission.

The bank details of SJVN are as follows:

Account Name: SJVN Ltd. RTS DelhiA/c No: 43165412189Name of Bank: State Bank of IndiaBranch: South Ext Part II New DelhiIFSC Code: SBIN0003219

While carrying out online transfer, Bidders shall ensure to intimate the details of payment of Tender/ document fee through email to SJVN's mail id: <u>sjvnrts.contract@sjvn.nic.in</u> and also upload the details on ETS portal (Technical Bid Part) in the following format:

Declaration for Payment of Tender Document Fee Tender Search Code: Bidder Name: UTR Reference of Tender Fee Amount of Tender Document fee: Date of Transfer: Transferor Bank: Bank Account No.: Bank IFSC Code:

(Signature of Bidder with Seal)

3.2.2 In case a Bidder chooses to deduct TDS while making the payments against cost of RfS such TDS details shall be submitted by the Bidder along with the transaction details, as part of

RFS for SRPD for Design, Supply, Installation, Testing and Commissioning including Warranty, Comprehensive O&M for cumulative capacity of 18 MW Grid Connected RTS Projects (without battery storage) on Union Government Buildings under PM Surya Ghar: Muft Bijli Yojana. (RFS No.: SJVN/RTS/2024-25/Rooftop Solar-5, TSC No. SJVN-2024-TN000015)

Page 17 of 137

online bid submission.

- **3.2.3** Bids submitted without tender/document fee and Earnest Money Deposit (EMD) (including partial submission of any one of the respective amounts), may be liable for rejection by SJVN.
- **3.2.4** MSMEs (Micro, Small and Medium Enterprises) registered under NSIC/DIC/Udyog Aadhar and Startups are **not exempted** from submission of tender/document fee & Earnest Money Deposit (EMD).

3.3 CONTENT OF RFS DOCUMENT:

The RFS Documents shall comprise the documents listed below along with any Amendment/Addendum/Corrigendum/Clarification/Errata issued in accordance with Clause 3.6, if any.

- i) Section I: Invitation for Bids
- ii) Section II: Definitions
- iii) Section III: Instruction to Bidders
- iv) Section IV: Eligibility Criteria
- v) Section V: Bid Evaluation and Selection of Bidders
- vi) Section VI: Conditions of Contract
- vii) Section VII: Forms & Formats for Bid Submission

3.4 COST OF BIDDING:

The Bidder shall be responsible for all the costs associated with the preparation of the response to RFS and participation in discussions and attending pre-bid meeting(s) etc. SJVN shall not be responsible in any way for such costs, regardless of the conduct or outcome of the bid process.

3.5 PRE-BID MEETING:

A Pre-Bid Meeting with prospective bidders will be held on the date and venue mentioned at Clause 1.3 of Section I of this RFS Document. Wherever the bidder finds any discrepancy, omission, ambiguity or conflict in or among the documents issued or be in doubt as to their meaning and interpretation; such matter should be called to the attention of the RFS Inviting Authority, in writing either by email or by post and it must be received to RFS Inviting Authority latest by one day before the scheduled date of pre bid meeting up to 15:00 Hrs. Enquiries/ clarifications may be sought by the Bidder in the following format on email ID: sjvnrts.contract@sjvn.nic.in

Sr. No.	Clause no. of RFS	Provision of RFS	Query of bidder

The bidders are required to submit the queries in MS Word file also.

SJVN will make effort to respond to the same in the Pre-Bid Meeting to be held as mentioned in the Bid Information Sheet. A compiled list of such questionnaire and SJVN's response will be uploaded in the ISN-ETS portal <u>https://www.bharat-</u> electronictender.com. and www.sjvn.nic.in.Verbal clarifications & information given by SJVN or their employees(s) or

their representative(s) shall not be in any way binding on SJVN. Any modification to the RFS Documents that may become necessary as a result of the pre-bid Clarifications shall be made by SJVN through the issue of an Addendum/Corrigendum/Amendment/Clarification pursuant to clause 3.6. SJVN shall not be obliged to respond to any request for clarification received later than the above period. Further, mere request for clarification from the Bidders shall not be a ground for seeking extension in the deadline for submission of bids.

3.6 AMENDMENTS TO RFS DOCUMENT:

- **3.6.1** At any time prior to the deadline for submission of Bids, SJVN may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder(s), modify the RFS document by issuing Addendum / Corrigendum / Amendment/ Clarification and the same shall be available on the ISN-ETS portal https://www.bharat-electronictender.com and SJVN's website www.sjvn.nic.in. No press note will be released in this regard. Therefore, the Bidders are advised to visit the above referred sites regularly before deadline for submission of proposal.
 - **3.6.2** All such Addendum/Corrigendum/Amendment/Clarification shall form integral part of this RFS Document. SJVN shall bear no responsibility or liability arising out of non-receipt of the above in time by the Bidders.
 - **3.6.3** In order to allow prospective bidders reasonable time in which to take the amendment into account in preparing their Bids, SJVN, at its discretion, may extend the deadline for the submission and opening of Bids.

3.7 LANGUAGE OF BIDS:

The Bids prepared by bidders and all correspondences and documents relating to the Bid exchanged by the Bidder(s) and SJVN shall be in English. Supporting documents and printed literature furnished by the Bidders with their bids may be in another language, provided they are accompanied with a certificate of the authorized translator certifying therein an accurate translation of the relevant passages in the above stated language, in which case, for the purposes of interpretation of the Bid, the translation shall prevail.

3.8 BID CURRENCIES:

The bidder shall indicate the entire bid price in INDIAN RUPEES only.

3.9 VALIDITY OF THE RESPONSE TO RfS:

The Bidder shall submit the response to RfS which shall remain valid up to 12 months from the last date of submission of response to RfS ("Bid Validity"). SJVN reserves the right to reject any response to RfS which does not meet the aforementioned validity requirement.

3.10 EARNEST MONEY DEPOSIT (EMD):

3.10.1 Earnest Money Deposit (EMD) @ INR 1000/kW (Rupees One Thousand Only) per kW of total quoted capacity in the form of Bank Guarantee according to Format 7.3A and valid for 12 months from the original last date of bid submission, shall be submitted by the Bidder along with their bid, failing which the bid shall be summarily rejected. The Bank Guarantees, DD/Payment on Order/NEFT/RTGS towards EMD have to be issued/transferred in the name of the Bidding Company/ Lead Member of Bidding Consortium. In the event of encashment of EMD, the encased amount shall include all applicable taxes.

Electronic Bank Guarantee (e-BG) is also acceptable against EMD under this RfS.

- **3.10.2** The Bidder shall furnish the Bank Guarantees towards EMD from any of the Scheduled Commercial Banks as listed on the website of Reserve Bank of India (RBI) and amended as on the date of issuance of bank guarantee. Bank Guarantee issued by foreign branch of a Scheduled Commercial Bank is to be endorsed by the Indian branch of the same bank or State Bank of India (SBI).
- **3.10.3** The EMD shall be valid as per the timelines stipulated above. However, shortfall in the EMD validity, if any, up to a period of seven (7) days shall be acceptable. Further, an additional shortfall shall be acceptable only if bidder has submitted the EMD with validity as per original bid submission date or as per any revised submission date and if the deadline for submission of bids has been extended further, the Bid Guarantee shall be acceptable provided, the EMD is submitted in accordance with original bid submission date stipulated above and Bidder submits the EMD extension for the requisite period within seven days from the date of actual bid submission, if required.
- **3.10.4** SJVN has agreed to accept the EMD in the form of an unconditional and irrevocable Bank Guarantee instead of the cash deposit with the clear position intimated to the bidder that the EMD Bank Guarantee shall be encashable for being appropriated by SJVN in terms of the guarantee as in the case of appropriation of the cash deposit lying with SJVN.

3.10.5 Payment on Order Instrument (POI):

As an alternative to submission of EMD as above, the Bidder also has an option to submit a letter of undertaking issued by either of the following three organizations, viz. (i) Indian Renewable Development Agency Limited (IREDA) or (ii) Power Finance Corporation Limited or (iii) REC Limited. This Letter of Undertaking shall be issued as "Payment on Order Instrument" (POI), wherein the POI issuing organization undertakes to pay in all scenarios under which the EMD would be liable to be encashed by SJVN within the provisions of RfS/PPA. This instrument would have to be furnished as per **Format 7.3B** of the RfS, within the timelines as per Clause **3.10.1** above, for the amount and validity period as per those Clause **3.10.1** above.

3.10.6 The term "Bank Guarantee (BG) towards/ against EMD" occurring in the RfS shall be read as "Bank Guarantee (BG)/ Payment on Order Instrument (POI) towards/ against EMD"

3.11 FORFEITURE OF EMD:

The BG/Payment of order/DD/RTGS/NEFT etc towards EMD shall be encashed by SJVN in following cases:

- a. If the bidder withdraws or varies the bid after due date and time of bid submission and during the validity of bid;
- b. In case, SJVN offers to execute the PPA with the Selected Bidder and if the Selected Bidder does not submit the requisite documents as per Clause **6.12** of the RfS or does not execute the PPA within the stipulated time period;
- c. If after issuance of LoA, it is found that the documents furnished by the bidders as part of response to RfS are misleading or misrepresented in any way;
- d. If the bidder fails to furnish required Performance Bank Guarantee/POI in accordance with Clause 6.10 of the RfS.

3.12 INSTRUCTIONS TO BIDDERS FOR STRUCTURING OF BID PROPOSALS IN RESPONSE TO RFS:

The bidder including its Parent, Affiliate or Ultimate Parent or any Group Company shall submit single response to RFS. Detailed Instructions to be followed by the bidders for online submission of response to RFS are stated at Annexure – J Submission of bid proposals by Bidders in response to RFS shall be in the manner described below:

- i) Covering Letter as per Format 7.1.
- ii) In case of a Bidding Consortium, a Power of Attorney in favour of the Lead Member issued by the other Members of the Consortium shall be provided in original as per format attached hereto as **Format 7.2**.

In the event any Member of the Bidding Consortium (other than Lead Member) is a foreign entity, it may submit Board Resolutions in place of Power of Attorney for the purpose of fulfilling the requirements under this clause. Provided that such Board Resolutions shall be supported by an unqualified opinion issued by the legal counsel of such foreign entity stating that the Board Resolutions are in compliance with the applicable laws of the respective jurisdictions of the issuing Company and the authorizations granted therein are true and valid.

- iii) Bank Guarantee/Payment of order against Earnest Money Deposit (EMD) as per Format 7.3 A/7.3B.
- iv) Signed copies of original documents defining; written power of attorney of the signatory of the Bid to commit the Bidder;
- A) In case of a General Power of Attorney, a true copy of the POA shall be duly notarized by Notary Public alongwith a declaration from the Company Secretary /Corporate Secretary endorsing the validity of the Power of Attorney(To be provided by the bidding Company)

OR

- B) In case of a specific Power of Attorney, Board Resolutions, as per prescribed formats enclosed as per Format 7.4 duly certified by the Company Secretary or the Director of the relevant Bidder, as applicable to the Bidder and mentioned hereunder:
- a) Board Resolution from the Bidding Company or the Lead Member of the Consortium, as the case may be, in favour of the person signing the response to RfS and in the event of selection of the Projects and to sign the PPA with SJVN/entity. Board Resolution from each of the Consortium Members in favour of the person signing Consortium Agreement.
- b) Board Resolution from the Bidding Company committing 100% (One Hundred Percent) of the equity requirement for the Project/ Board Resolutions from each of the Consortium Members together in aggregate committing to 100% (One Hundred Percent) of equity requirement for the Project (in case of Bidding Consortium); and
- c) Board Resolutions from each of the Consortium Members and Lead member contributing such additional amount over and above the percentage limit (specified for the Lead Member and other member in the Consortium Agreement) to the extent becoming necessary towards the total equity share in the Project Company, obligatory on the part of the Consortium pursuant to the terms and conditions in the Consortium Agreement.
- d) In case of a Consortium, the Consortium Agreement between the Members in the Consortium as per **Format 7.5** along with Board resolution from each Member of the Consortium for participating in Consortium.
- v) Format for Financial Requirements as per **Format 7.6** along with the certificate from practicing Chartered Accountant/ Statutory Auditors showing details of computation of the financial credentials of the Bidder.
- vi) Undertaking regarding no willful default and no major litigation pending as per Format 7.7
- vii) A disclosure statement as per **Format 7.8**/ **7.8A** regarding participation of any related companies in the bidding process.
- viii) Signed Integrity Pact between SJVN and the Bidding Company as per Format 7.9

ix) *Attachments*:

a. Only Extract of relevant clause of Memorandum of Association, Article of Association of the Bidder needs to be attached along with the bid. The bidder should also highlight the relevant provision which highlights the objects relating to Power/ Energy/ Renewable Energy/ Solar Power plant development/Electrical Equipment.

In case, there is no mention of the above provisions in the MoA/ AoA of the Bidder, the same has to be amended and submitted prior to signing of PPA, if the bidder is selected as Successful bidder.

If the selected bidder wishes to execute the project through a Special Purpose Vehicle

(SPV), the MoA/AoA of the SPV highlighting the relevant provision which highlights the objects relating to Power/Energy/Renewable Energy/Solar Power plant development/ Electrical Equipment has to be submitted prior to signing of PPA.

- b. Certificate of Incorporation of Bidding Company/ all member companies of Bidding Consortium.
- c. A certificate of shareholding of the bidding company, its Parent and Ultimate Parent (if any) duly certified by a practicing Chartered Accountant/Company Secretary as on a date within 30 days prior to the last date of bid submission. SJVN reserves the right to seek additional information relating to shareholding in promoter companies, their parents/ ultimate parents and other group companies to satisfy themselves that RfS conditions have been complied with and the bidder will ensure submission of the same within the required time lines.(if applicable).
- d. Certified copies of annual audited accounts for the last three financial years, ending on 31.03.2024 **or** provisional accounts duly certified by a practicing Chartered Accountant (as applicable), along with certified copies of Balance Sheet, Profit &Loss Account, Schedules and Cash Flow Statement supported with bank statements as on the date at least 7 days prior to the due date of bid submission (if applicable), shall be required to be submitted.
- e. Details of all types of securities/instruments which are pending conversion into equity whether optionally or mandatorily.
- f. Copy of PAN & GST Registration Certificate.
- x) Covering letter of the financial bid as per Format 7.10
- xi) Technical Eligibility/Technical Requirement as per Format 7.11
- xii) The bidder shall provide warrantee covering the rectification of any and all defects in the design of equipment, materials and workmanship including spare parts for a period of 25 years/tenure of PPA from the date of commissioning of projects.

3.13 IMPORTANT NOTES AND INSTRUCTIONS TO BIDDERS:

- i) Wherever information has been sought in specified formats, the Bidders shall fill in the details as per the prescribed formats and shall refrain from any deviations and referring to any other document for providing any information required in the prescribed format.
- ii) The Bidders shall be shortlisted based on the declarations made by them in relevant schedules of RfS. The documents submitted online will be verified before signing of PPA in terms of Clause 3.12 of the RfS.
- iii) If the Bidder/Member in a Bidding Consortium conceals any material information or makes a wrong statement or misrepresents facts or makes a misleading statement in its response to RfS, in any manner whatsoever, SJVN reserves the right to reject such response to RfS and/or cancel the Letter of Award, if issued, and the Bank Guarantee/security provided up to that stage shall be encashed. Bidder shall be solely responsible for disqualification based on their declaration in the submission of response to RfS.

- iv) If the event specified at Clause 3.13(iii) is discovered after the Effective Date of PPA, it shall be treated as "SPD Event of Default" under PPA and consequences as specified in PPA shall apply.
- v) Response submitted by the Bidder shall become the property of the SJVN and SJVN shall have no obligation to return the same to the Bidder. However, the EMDs submitted by unsuccessful Bidders shall be returned as specified in **Clause 6.9.10** of the RfS.
- vi) All documents of the response to RfS (including RfS and subsequent Amendments/ Clarifications/ Addenda) submitted online must be digitally signed by the person authorized by the Board as per **Format 7.4.**
- vii) The response to RfS shall be submitted as mentioned in Clause 3.12 of the RfS. No change or supplemental information to a response to RfS will be accepted after the scheduled date and time of submission of response to RfS. However, SJVN reserves the right to seek additional information from the Bidders, if found necessary, during the course of evaluation of the response to RfS.
- viii) The Bidder shall make sure that the correct, valid and operative Pass-Phrase to decrypt the relevant Bid-part is submitted into the 'Time Locked Electronic Key Box (EKB)' after the deadline of Bid submission, and before the commencement of the Online Tender Opening Event (TOE) of Technical bid.
- ix) All the information should be submitted in English language only. In case of foreign bidders having documents in other than English language, then the documents shall be translated in English language by certified translator and submitted.
- x) Bidders shall mention the name of the contact person and complete address and contact details of the Bidder in the covering letter.
- xi) Response to RFS that are incomplete, which do not substantially meet the requirements prescribed in this RfS, will be liable for rejection by SJVN.
- xii) Response to RfS not submitted in the specified formats will be liable for rejection by SJVN.
- xiii) Bidders delaying in submission of additional information or clarifications sought will be liable for rejection.
- xiv) Non-submission and/ or submission of incomplete data/ information required under the provisions of RfS shall not be construed as waiver on the part of SJVN of the obligation of the Bidder to furnish the said data/information unless the waiver is in writing.
- xv) The Central/State Electricity Regulatory Commission shall be the appropriate commission to exercise the regulatory and adjudicatory jurisdiction in regard to matters between SPD and SJVN as well as SJVN and Client organisation. Subject to the above, only NCT of

Delhi Courts shall have exclusive jurisdiction in all matters pertaining to this RfS.

- xvi) All the financial transactions to be made with SJVN including service charges and any additional charges (if required), shall attract applicable GST on each transaction, irrespective of the same being mentioned in the RfS/PPA.
- xvii) The bid shall be signed by a person duly authorized to sign on behalf of the Bidder. The bid should be serially numbered and properly indexed mentioning all constituents of bid including any enclosures/attachments etc. and their location page numbers in the bid. Failure to submit the bid in systematic manner as above may result oversight of any important information provided by the bidder for which SJVN shall not be responsible.
- xviii) The Bid shall contain no overwriting, alterations, omissions, or additions, unless such corrections are initiated by the person(s) signing the Bid. Corrections if any shall only be made by scoring out the cancelled portion, writing the correction, initiating and dating it by the person(s) signing the Bid.
 - xix) All witnesses and sureties shall be persons of status and their full names, occupations and addresses shall be stated below their signatures.
 - xx) Please note that bids in any other mode including Email shall not be entertained under any circumstances.
 - xxi) Only NCT of Delhi Courts shall have exclusive jurisdiction in all matters pertaining to RFS.
 - xxii) Copy of Contract/Award Letter, Completion Certificate, plant Operational Certificate from utility or any other suitable/related documents shall also be submit to establish the fact that the mentioned contract had been awarded, executed and operational.

3.14 METHOD OF SUBMISSION OF RESPONSE TO RfS BY THE BIDDER:

3.14.1 Documents to be Submitted Offline (in Original):

- i) The bidder has to submit original of following documents offline.
 - a) Bank Guarantee towards EMD as mentioned in the Bid Information Sheet (as per Format 7.3A/7.3B). One EMD may be submitted for the cumulative capacity quoted by the bidder.
 - b) DD/Payment on Order towards EMD.
 - c) UTR Reference number in case of NEFT/RTGS transfer of EMD.
 - d) Duly Signed Integrity Pact between SJVN and the Bidding Company (Scanned version of the format, duly signed by SJVN's authorized signatory, is attached in RfS).
 - e) Pass-phrases for Technical bids and Financial bids submitted on the ETS portal.
- ii) Bank Guarantee against EMD or Payment on Order/DD against EMD needs to be submitted in both online and offline modes. The bidders will be required to submit the bank guarantee, either in person or through post, at the office of SJVN, New Delhi until the last

date and time for submission of hard copy of document as mentioned at Clause 1.3 of RfS and extensions of dates, if any.

Note: In all cases, the EMD (if applicable), shall be issued on or before the bid submission deadline. These instruments issued after the expiry of the deadline will be summarily rejected.

iii) The bidding envelope shall contain the following sticker:

Request for Selection (RfS) Document for Selection of Solar Rooftop Power			
Developers for Setting up	Developers for Setting up ofkW Grid connected Rooftop Solar Power		
Projects in the states of	Projects in the states of Under Tariff –Based Competitive Bidding"		
under PM Surya Ghar: Mu	under PM Surya Ghar: Muft Bijli Yojana.		
RFS Reference No.			
Submitted by	(Enter Full name and address of the Bidder)		
Organization ID (OID)	(Enter the OID through which the Bid has been		
on ETS portal	submitted		
	online on ETS portal)		
	(Signature of the Authorized Signatory)(Name of the		
Authorized Signatory	Authorized Signatory)		
	(Stamp of the Bidder)		
	Deputy General Manager (Contracts), RTS SJVN		
	Limited		
	6th Floor, Tower-1, NBCC Office Complex, East		
Bid Submitted to	Kidwai Nagar, New Delhi-110023		
	Tel No. 011-61901906		
	Email-sjvnrts.contract@sjvn.nic.in		

3.14.2 Documents to be Submitted Online

Detailed instructions to be followed by the Bidders for online submission of response to RFS are stated at Annexure-J. The bidders shall strictly follow the instructions mentioned in the electronic form in respective Technical Bid while filling the forms.

If the Bidder has submitted bid online and fails to submit the Bank Guarantee/POI/DD against EMD for requisite amount offline, until the last date and time for submission of hard copy of document as mentioned at Cl. 1.3 of RfS and extensions of dates, if any, then the same shall be treated as incomplete bid and Tender Fee/Cost of RFS Document, submitted at this stage will be encashed and the EMD(s) shall be returned and the submitted bid will stand cancelled.

All documents of the response to RFS submitted online must be digitally signed and uploaded on the website, **https://www.bharat-electronictender.com** which should contain the following:

I. <u>Technical Bid (First Envelope)</u>

The Bidder shall upload single Technical Bid containing **scanned copies** of the following documents duly signed and stamped on each page by the authorized signatory as mentioned below.

- a) Formats 7.1, 7.2 (if applicable), 7.3 A/ 7.3 B, 7.4, 7.5 (if applicable), 7.6, 7.7, 7.8/7.8A, 7.9, 7.10 and 7.11 elaborated in Clause 3.12 of the RfS.
- b) All attachments elaborated in Clause 3.12 of the RfS, under the sub-clause viii: Attachments, with proper file names.
- c) All supporting documents regarding meeting the eligibility criteria.
- d) Scanned Copies of NEFT/RTGS details towards Tender Fee/Cost of RFS Document as mentioned in Bid Information Sheet.
- e) Scanned copies of requisite amount of Bank Guarantee/ Payment on Order Instrument towards EMD as mentioned in the Bid Information Sheet.
- f) The Bidder will have to fill the Electronic Form provided at the ISN-ETS portal as part of Technical Bid.
- g) Submission of Pass-phrases: In line with Clause 3.13 (viii) and Annexure-J, the Bidder shall be required to submit the Pass-Phrase to decrypt the relevant Bid-part is submitted into the 'Time Locked Electronic Key Box (EKB)' after the deadline of Bid submission, and before the commencement of the Online Tender Opening Event (TOE) of Techno- commercial bid.

II. Financial Bid (Second Envelope)

 Bidders shall submit the scanned copy of Covering letter for Submission of Financial Bid as per Format – 7.10 of the RfS

2) **Bidding Parameter:**

- i) <u>A single levelized tariff as a bidding parameter:</u> The bidding parameter shall be the a firm & fixed levelized tariff quoted in Rs./kWh for the full term of the PPA.
- ii) <u>A single tariff to be quoted for each state</u>: A single tariff shall be quoted by the Bidder for a particular State. The single tariff for each client organization will be applicable on all buildings considered for that client in same State (f applicable).

The above tariff-fixed for the term of the PPA-shall include all costs related to the Scope of Work as per the RfS and obligations of the SPD under the PPA. The Bidder shall quote for the entire facilities on a "single responsibility" basis such that the tariff covers all the obligations in respect of Site Survey, Feasibility report, Design, Supply, Storage, civil Erection, Testing and Commissioning including Warranty, Operation & Maintenance (25 years), inclusive of all taxes. The fixed tariff should be quoted while accounting for the cost of grid-connectivity and net metering application/ security deposit etc. All costs associated with net-metering will have to be borne by the successful Bidder/SPD.

- iii) The fixed tariff shall be inclusive of all duties and taxes, insurance etc. The prices quoted by the firm shall be complete in all respect and no price variation/adjustment shall be payable by the Client Organization/SJVN. However, statutory variation of taxes and duties may be paid by the Client Organization/SJVN.
- iv) The tariff shall remain firm and fixed and shall be binding on the Successful Bidder/SPD for the Term of the PPA irrespective of actual cost of execution of the Project. No escalation on the tariff will be granted for any reason whatsoever. The SPD shall not be entitled to claim any additional charges, even though it may be necessary to extend the completion period for any reasons whatsoever.
- V) For each Client Organization/SJVN, only a single tariff bid for the entire Project capacity of particular state, shall have to be filled online in the Electronic Form provided at the ISN-ETS portal. The instructions mentioned in the Financial Bid Electronic Form have to be strictly followed without any deviation, else the bid shall be considered as non- responsive.

VI) Important Note:

- (a) The Bidders shall not deviate from the naming and the numbering formats of envelop(s) mentioned above, in any manner.
- (b) In each of the envelopes, all the documents enclosed shall be indexed and flagged appropriately, with the index list indicating the name of the document against each flag.
- (c) All the envelopes shall be properly sealed with the signature of the Authorized Signatory running across the sealing of the envelopes.
- (d) In case the Bidder submits the online documents on ISN-ETS within the bid submission deadlines and fails to submit the offline documents in the office of SJVN within the bid submission deadlines, the online bid of the Bidder shall not be opened and shall be 'archived' on the ISN-ETS portal. Similarly, bids submitted offline but without any online submission on ISN-ETS portal shall not be opened and the EMD shall be returned to the respective bidder.
- (e) In case of submission of Bank Guarantee against EMD/POI/DD on online portal on or before the bid submission deadline, and non-submission of the hard copy of the Bank Guarantee/POI/DD to SJVN within the timeline specified for submission of hardcopy of the documents, its bid shall be rejected and not considered for further evaluation.

3.15 DEADLINE FOR SUBMISSION OF BIDS:

3.15.1 Complete Bid must be uploaded at the ISN-ETS portal. The documents to be submitted offline as per Clause 3.14.1 must be received by SJVN at the address of RfS Inviting Authority not later than the last date and time for submission of hardcopy of documents offline as stipulated in the RfS document/ ISN-ETS portal. The date and time for online submission of the bids shall continue to be the date and time as specified in the RfS document or any subsequent amendment for the same. In the event of the specified date for the submission of bids being declared a holiday for SJVN, the hard copy of documents/offline submission will be received

up to the specified time on the next working day.

3.15.2 SJVN may, in exceptional circumstances and at its discretion, extend the deadline for submission of bids by issuing an Addendum in accordance with Clause 3.6, in such case all rights and obligations of SJVN and the bidders previously subject to the original deadline will thereafter be subject to the deadline as extended.

3.16 LATE BIDS:

Online submission of the bid will not be permitted on the portal after expiry of submission time and the bidder shall not be permitted to submit the same by any other mode. Similarly, hard copies of the OFFLINE documents, if received by SJVN Ltd after the deadline for submission as prescribed in RfS document/ ISN-ETS portal, then it will be considered as 'Late Bid' and shall be considered non-responsive and shall be summarily rejected notwithstanding the fact that the bidder has uploaded the bid online within the stipulated deadline.

3.17 MODIFICATION, SUBSTITUTION AND WITHDRAWAL OF BIDS:

- 3.17.1 The Bidder may modify, substitute, or withdraw his bid after its submission but in any case, before the deadline for submission of bids.
- 3.17.2 Any alteration/ modification in the Bid or additional information supplied unless solicited by SJVN subsequent to expiry of last date and time of submission of bids shall be disregarded.
- 3.17.3 Withdrawal of a Price Bid during the interval between the deadline for submission of Bids and expiration of the period of Bid validity specified in Clause 3.9 shall not be permitted and appropriate action may be taken by SJVN as per provisions mentioned in the Bid Security Declaration submitted by the Bidder.

3.18 BID OPENING:

- 3.18.1 The Technical-Commercial Bid shall be opened on the scheduled date, time and location stipulated in the RFS Document.
- 3.18.2 The Price Bid shall be opened only of those bidders whose Techno-Commercial Bid are found Techno-Commercially qualified. Financial Bids of the Bidders whose Bids not found Technically qualified shall not be opened and shall not be considered at all any further.
- 3.18.3 If it happens to be a holiday or due to any other technical reasons like non-availability of the Committee Members etc. on the day of opening of the tender, the Bids shall be opened on next working day at the same time.
- 3.18.4 SJVN Ltd shall not be responsible if online bid could not be opened within reasonable time for whatsoever reason. In such a case, the bid shall remain unopened on the portal and shall not be considered at all any further.

3.19 CLARIFICATION ON BIDS:

To assist in the examination, evaluation, and comparison of bids, SJVN may, at its discretion, ask any bidder for clarification of its Bid. The request for clarification and the response shall be through e-mail but no change in the price or substance of the bid shall be sought, offered, or permitted except as required to confirm the correction of arithmetical errors discovered by the SJVN in the evaluation of the Bids. All such responses submitted by the Bidder shall form part of their bid.

3.20 EVALUATION OF BIDS AND SELECTION OF BIDDER:

The evaluation of Bids and selection of successful Bidders shall be carried out as per the procedure and methodology stipulated in Section V of this RfS Document.

3.21 RIGHT OF SJVN TO REJECT A BID:

SJVN reserves the right to reject any or all of the responses to RfS or cancel the RfS or annul the bidding process for any project at any stage without assigning any reasons whatsoever and without thereby any liability. In the event of the tender being cancelled atany stage, EMD submitted by the Bidders shall be returned to the respective Bidders.

3.22 POST AWARD COMPLIANCES:

Timely completion of all the milestones i.e. signing of PPA, meeting Financial Closure Requirements/Conditions Subsequent (PPA), Commissioning etc. will be the sole responsibility of SPD. SJVN shall not be liable for issuing any intimations/ reminders to SPDs for timely completion of milestones and/ or submission of compliance documents.

Any checklist shared with SPD by SJVN for compliance of above mentioned milestones to be considered for the purpose of facilitation only. Any additional documents required as per the conditions of Guidelines, RfS and PPA must be timely submitted by the SPD.

3.23 PRE-CONTRACT INTEGRITY PACT:

To improve transparency and fairness in the tendering process, SJVN is implementing Integrity Pact. Integrity Pact is deemed as part of the contract so that the prospective bidders are bound by its provisions.

The Integrity Pact, signed by all the prospective Bidders and SJVN, shall commit the persons/officials of both the parties, not to exercise any corrupt /fraudulent/collusive/coercive practices in the Tendering process and also during implementation of the Contract. Only those Bidders who have entered into Integrity Pact with SJVN shall be eligible to participate in the bidding process. Bidders signing Integrity Pact shall not approach the Courts while representing the matters to IEMs and he/she will await their decision in the matter Entering into Integrity Pact as per Performa enclosed in the Tender Document is a basic qualifying requirement.

In case of JV, each partner of JV shall sign Integrity Pact with SJVN. In case of subcontracting, the Principal Consultant shall be responsible for adoption of Integrity Pact by the sub-Consultant. To oversee the compliance of obligation under the Integrity Pact, Independent External Monitor(s) (IEMs) have been appointed by SJVN. The details are as under:

Sl. No.	Name of IEMs	Address of IEMs
1	Sh. Manoj Pant, IFoS (Retd.)	House no. 70, Usha Colony, Sahastradhara Road, Dehradun-248013 (Uttarakhand), Email-mpant2007@gmail.com
2	Sh. Davendra Verma, ISS (Retd.)	604, Tower-14, Purvanchal Royal City, Chi V, Greater Noida, G.B. Nagar-201310, Uttar Pradesh Email- verma.davendra@gmail.com

The Integrity Pact duly signed on behalf of SJVN is given in Section VII: Forms & Format.

The Integrity Pact along with its Annexure -A (Guidelines on banning of business dealings) and Undertaking (FORM OF DECLARATION OF ELIGIBILITY) enclosed in the RfS Document shall be downloaded, printed and signed by the bidder and the same will be submitted with Bid.

The successful bidder shall submit duly executed Integrity Pact on Non-Judicial stamp paper of appropriate value prior to signing of Contract Agreement.

3.24 CORRUPT OR FRAUDULENT PRACTICES:

It is expected from the Bidders that they will observe the high standard of ethics during the bidding process and Construction of such Contracts. In pursuance of this policy:

- 1. For the purpose of this provision, the terms set-forth below shall mean as under:
 - a. "corrupt practice" is the offering, giving, receiving or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party
 - b. "fraudulent practice" is any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation
 - c. "collusive practice" is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party;
 - d. "coercive practice" is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;
 - e. "obstructive practice" is deliberately destroying, falsifying, altering or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede a investigation into allegations of a corrupt, fraudulent, coercive or collusive practice; and/or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation.
- 2. A Bid shall be rejected by SJVN if it is determined at any stage that respective Bidder has engaged in corrupt or fraudulent or Collusive or Coercive practices or obstructive practice

in executing the Contract in question and his Bid Security shall be forfeited. The Bidder shall not be entitled for any compensation whatsoever under this clause.

- 3. SJVN may declare a bidder ineligible, either indefinitely or for a stated period of time, to be awarded a Contract if it at any time determines that the bidder has engaged in corrupt or fraudulent or collusive or coercive practices in competing for, or in executing a Contract.
- 4. The documents/information submitted by Bidder/Contractor may be verified by the officials of SJVN for its authenticity at any time and the Bidder/Contractor shall provide all facilities/co-operation in this regard. If it is found that any of the documents/information submitted by the Bidder/Contractor is not genuine, SJVN shall have full rights to cancel his Bid, forfeit the bid security and terminate the Contract, if awarded.

-----END OF SECTION-----

<u>SECTION IV:</u> ELIGIBILITY CRITERIA

RFS for SRPD for Design, Supply, Installation, Testing and Commissioning including Warranty, Comprehensive O&M for cumulative capacity of 18 MW Grid Connected RTS Projects (without battery storage) on Union Government Buildings under PM Surya Ghar: Muft Bijli Yojana. (RFS No.: SJVN/RTS/2024-25/Rooftop Solar-5, TSC No. SJVN-2024-TN000015)

Page 33 of 137

SECTION IV: ELIGIBILITY CRITERIA

4.0 BIDDER MUST MEET THE FOLLOWING QUALIFICATION REQUIREMENTS:

4.1 GENERAL ELIGIBILITY CRITERIA:

4.1.1 For SJVN Empaneled Vendors

- (a) All SJVN empaneled vendors irrespective of State(s) opted/empaneled under RESCO/CAPEX mode in SJVN vide EOI No. SJVN/RTS/2024-25/Rooftop Solar-1 dated: 18.07.2024 Tender Search Code (TSC): SJVN-2024-TN000007 shall be treated as "General Eligibility Criteria Qualified" and only "Financial Eligibility" criteria of those vendors shall be evaluated.
- (b) SJVN empaneled vendor(s) vide EOI No. SJVN/RTS/2024-25/Rooftop Solar-1 dated: 18.07.2024 Tender Search Code (TSC): SJVN-2024-TN000007 for the States of Himachal Pradesh, Jammu & Kashmir, Ladakh, Uttarakhand, Lakshadweep, Sikkim, Andman & Nikobar Islands, Dadra & Nagar Haveli and Daman & Diu, Arunachal Pradesh, Nagaland, Tripura, Mizoram, Manipur, Assam and Meghalaya (on the basis of relaxed eligibility criteria) shall be required to meet & qualify the instant "Eligibility Criteria" mentioned at Clause no. 4.0 under Section IV of this RfS, in case the they are interested to bid for the State(s) other than the State(s) for which they are empaneled by SJVN.
- (c) The terms and conditions for empaneled vendor(s) vide EOI no. SJVN/RTS/2024-25/Rooftop Solar-1 dated 18.07.2024 shall remain unchanged, if empaneled vendor selected under this RFS and selected vendor shall have to comply the same.

4.1.2 For other than SJVN empaneled Vendors

Bidders participating in the RfS will be required to meet the following general eligibility criteria (as applicable).

- 4.1.3 The Bidder shall be a Company as defined in definitions section.
- 4.1.4 Bidding Consortium shall have one of the Companies as the Lead Member. Consortium shortlisted and selected based on this RfS has to necessarily form a Project Company and get it registered under the Companies Act, 2013 prior to signing of PPA, keeping the original shareholding of the Bidding Consortium unchanged. In case applications for multiple Projects have been made by a Consortium, separate Project Companies can be formed for each Project. For the avoidance of doubt, it is hereby clarified that the shareholding pattern of the Project Company shall be identical to the shareholding pattern of the Consortium as indicated in the Consortium Agreement (Format 7.5)
- 4.1.5 Limited Liability Partnership (LLPs) firms are not eligible for participation, as a sole bidder. However, in case of Bidding Consortium, Lead member must be a company as defined in clause 2.12 of Section-II & other member(s) shall be a company (ies)/Limited Liability Partnership (LLP) firm(s)/Partnership firm.
- 4.1.6 A foreign company can also participate on standalone basis or as a member of consortium at the RFS stage. In case of foreign company participating on standalone basis and its selection as successful Bidder, it has to form a "Special Purpose Vehicle" (SPV), i.e. an Indian Company

registered under the Companies Act, 2013 as its subsidiary Company, with at least 51% shareholding in the SPV before signing of PPA. In case a Foreign Company is selected as the successful Bidder, it shall comply with all the laws and provisions related to Foreign Direct Investment in India.

In case the foreign company participating as a member of consortium, Clause 4.1.9 of the RfS shall be applicable.

- 4.1.7 In line with the O.M. issued by the Department of Expenditure, Ministry of Finance, vide No. 7/10/2021-PPD(1) dated 23.02.2023 and subsequent amendments and clarifications thereto, the Bidder shall meet the following criteria for its bid to be considered for evaluation under the RfS:
 - i) Any Bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority (as defined in the OM as referred above).
 - Any Bidder (including an Indian Bidder) who has a Specified Transfer of Technology (ToT) arrangement with an entity from a country which shares a land border with India will be eligible to participate in this RFS only if the Bidder is registered with the Competent Authority under the referred OM.
 - iii) "Bidder" in this reference, means any person or firm or company, including any member of a consortium, every artificial juridical person not falling in any of the descriptions of bidders stated hereinbefore, including any agency branch or office controlled by such person, participating in this tender.

iv) "Bidder from a country which shares a land border with India" for the purpose of this clause, means:

- a) An entity incorporated, established or registered in such a country; or
- b) A subsidiary of an entity incorporated, established or registered in such a country; or
- c) An entity substantially controlled through entities incorporated, established or registered in such a country; or
- d) An entity whose beneficial owner is situated in such a country; or
- e) An Indian (or other) agent of such an entity; or
- f) A natural person who is a citizen of such a country; or
- g) A consortium where any member of the consortium falls under any of the above.

v)"Beneficial owner" for the purposes of Clause 4.1.7(iv)-(d) above will be as defined in the referred OM, including subsequent amendments and clarifications thereto.

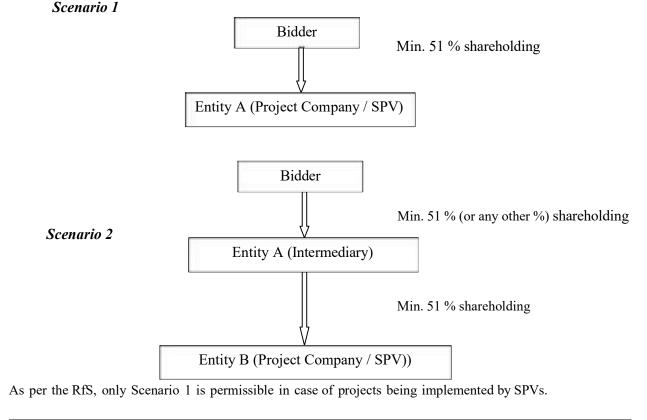
vi)In support of the above, the Bidder shall be required to submit necessary Undertaking, as per Format 7.8/7.8A of the RFS.

vii) Other provisions of the referred OM dated 23.02.2023, except Sl. 17 of the OM, will also be applicable for this tender. Any interpretation of the above clauses will be made in line with the referred OM, including subsequent amendments and clarifications thereto.

4.1.8 A Bidder which has been selected as Successful Bidder based on this RfS can also execute the

Project through a Special Purpose Vehicle (SPV) i.e. a Project Company especially incorporated/acquired as a subsidiary Company of the successful bidder for setting up of the Project, with at least 51% shareholding in the SPV which has to be registered under the Indian Companies Act, 2013, before signing of PPA. Multiple SPVs may also be utilized for executing more than one Project.

- 4.1.9 Any consortium, if selected as Successful Bidder shall incorporate, a Project company with equity participation by the Members in line with consortium agreement (to be submitted along with the response to RfS), i.e. the Project Company incorporated shall have the same shareholding pattern as that indicated in the Consortium Agreement given at the time of submission of response to RfS. Thereafter the combined shareholding of the Consortium Members in the SPV/Project Company shall not fall below 51% at any time, except with the prior approval of SJVN.
- 4.1.10 The Bidder or any of its Affiliates should not be a willful defaulter to any lender, and the Bidder & any of its Affiliate including any Consortium Member & any of its Affiliate, their directors should not have been barred or included in the blacklist by any government agency or authority in India, the government of the jurisdiction of the Bidder or Members where they are incorporated or the jurisdiction of their principal place of business, any international financial institution such as the World Bank Group, Asian Development Bank, African Development Bank, Inter-American Development Bank, Asian Infrastructure Investment Bank etc. or the United Nations or any of its agencies. The Bidder shall submit an undertaking to this effect.
- 4.1.11 For avoidance of doubt, it is clarified that the fully owned subsidiary Company as mentioned in Clauses 4.1.6 and 4.1.8 above should be an immediate subsidiary of the bidder, without any intermediaries involved. The following illustrations are provided to clarify the same.



4.2 TECHNICAL ELIGIBILITY CRITERIA:

4.2.1 For SJVN empaneled Vendors

- (a) All SJVN empaneled vendors irrespective of State(s) opted/empaneled under RESCO/CAPEX mode vide EOI No. SJVN/RTS/2024-25/Rooftop Solar-1 dated: 18.07.2024 Tender Search Code (TSC): SJVN-2024-TN000007 shall be treated as "Technically Qualified" and only "Financial Eligibility" criteria of those vendors shall be evaluated.
- (b) SJVN empaneled vendor(s) vide EOI No. SJVN/RTS/2024-25/Rooftop Solar-1 dated: 18.07.2024 Tender Search Code (TSC): SJVN-2024-TN000007 for the States of Himachal Pradesh, Jammu & Kashmir, Ladakh, Uttarakhand, Lakshadweep, Sikkim, Andaman & Nikobar Islands, Dadra & Nagar Haveli and Daman & Diu, Arunachal Pradesh, Nagaland, Tripura, Mizoram, Manipur, Assam and Meghalaya (on the basis of relaxed eligibility criteria) shall be required to meet and qualify the instant "Eligibility Criteria" mentioned at Clause no. 4.0 under Section IV of this RfS, in case the they are interested to bid for the State(s) other than the State(s) for which they are empaneled by SJVN.
- (c) The terms and conditions for empaneled vendor(s) vide EOI no. SJVN/RTS/2024-25/Rooftop Solar-1 dated 18.07.2024 shall remain unchanged, in case empaneled vendor selected under this RFS shall have to comply the same terms.

4.2.2 For bidders other than SJVN empaneled vendors

4.2.2.1 The bidder must have experience in "Similar Works" as defined below:-

The Bidder must have experience in Design, Supply, Installation and Commissioning of Grid Connected Rooftop/Ground mounted Solar Photo Voltic (SPV) Power Plants in India of cumulative Installed Capacity of 500kWp or higher in the last 07 (Seven) Years prior to the last day of month previous to the one in which the RfS is invited. (As per Format no.7.11 Table – A)

AND

Out of the above stated cumulative installed capacity, at least 01 Nos. Grid Connected Rooftop/Ground mounted Solar Photo Voltic (SPV) Power Plants should have been of 100 kWp or higher capacity. These reference plant must have been in successful operation for atleast 06 (six) months ending prior to last day of month previous to the one in which the RfS is invited. (As per Format no.7.11 Table –B)

<u>Note</u>:

- 1) All SJVN empaneled vendors irrespective of State(s) opted/empaneled under RESCO/CAPEX mode in SJVN vide EOI No. SJVN/RTS/2024-25/Rooftop Solar-1 dated: 18.07.2024 can bid for all the states mentioned at Annexure-D.
- 2) The Bidder shall submit applicable Letter of award/contract(s)/ Project completion certificate(s) for the respective project(s)
- **3)** Commissioned installed capacity as per completion certificate of respective project (s) will be considered qualifying towards above requirement.
- 4) Grid Connected Rooftop/Ground mounted SPV Power plant should be at a single location and must be connected with **DISCOM** distribution network.
- 5) The bidder shall submit a certificate from the respective client(s)/Electricity bill indicating

export of Energy/any other supporting documents certifying satisfactory operation of the reference plant(s) as per Table-B.

- 6) In case evidence of work experience against Technical Eligibility Criteria is issued by nongovernmental organization/ Private company; copy of TDS issued by employer/ 26AS certificate against the said work is required to be submitted by the bidder.
- 7) The experience of a holding company will be considered as experience of affiliate or viceversa.CA certificate confirming the relationship between affiliate entity and the bidding entity along with attested shareholding certificate is to be submitted in this regard.
- 8) Capacity below 10 kWp at single installation shall not be considered in qualifying cumulative installed Capacity.
- 9) Single utility meter shall be considered as one installation.

4.3 TECHNICAL ELIGIBILITY CRITERIA: (For Bidding Consortium)

4.3.1 The bidding Consortium must have experience in "Similar Works" as defined below:-

Any member of Bidding consortium must have experience in Design, Supply, Installation and Commissioning of Grid Connected Rooftop/Ground mounted Solar Photo Voltic (SPV) Power Plants in India of cumulative Installed Capacity of 500kWp or higher in the last 07 (Seven) Years prior to the last day of month previous to the one in which the RfS is invited. (As per Format no.7.11 Table – A)

AND

Out of the above stated cumulative installed capacity, at least 01 Nos. Grid Connected Rooftop/Ground mounted Solar Photo Voltic (SPV) Power Plants should have been of 100 kWp or higher capacity. These reference plant must have been in successful operation for atleast 06 (six) months ending prior to last day of month previous to the one in which the RfS is invited. (As per Format no.7.11 Table -B)

<u>Note</u>:

- 1) All SJVN empaneled vendors irrespective of State(s) opted/empaneled under RESCO/CAPEX mode in SJVN vide EOI No. SJVN/RTS/2024-25/Rooftop Solar-1 dated: 18.07.2024 can bid for all the states mentioned at Annexure-D.
- 2) The Bidder shall submit applicable signed Letter of award/contract(s)/ Project completion certificate(s) for the respective project(s)
- **3)** Commissioned installed capacity as per completion certificate of respective project (s) will be considered qualifying towards above requirement.
- 4) Grid Connected Rooftop/Ground mounted SPV Power plant should be at a single location and must be connected with **DISCOM** distribution network.
- 5) The bidder shall submit a certificate from the respective client(s)/Electricity bill indicating export of Energy/any other supporting documents certifying satisfactory operation of the reference plant(s) as per Table-B.
- 6) In case evidence of work experience against Technical Eligibility Criteria is issued by nongovernmental organization/ Private company; copy of TDS issued by employer/ 26AS certificate against the said work is required to be submitted by the bidder.
- 7) The experience of a holding company will be considered as experience of affiliate or vice-

versa.CA certificate confirming the relationship between affiliate entity and the bidding entity along with attested shareholding certificate is to be submitted in this regard.

- 8) Capacity below 10 kWp at single installation shall not be considered in qualifying cumulative installed Capacity.
- 9) Single utility meter shall be considered as one installation.

4.4 FINANCIAL ELIGIBILITY CRITERIA:

4.4.1 NET-WORTH:

The net worth shall be positive in two years out of the last three immediately preceding financial years ending on 31.03.2024 i.e FY : 2021-22, 2022-23, 2023-24. However, the Net Worth of the immediately preceding financial year shall be positive i.e FY 2023-24. The Net Worth shall be calculated in terms of the definition under sub-section 2 (57) of the Companies Act, 2013 as amended from time to time. Bidders to submit net worth calculated as above duly certified by Statutory Auditor/ a practicing Chartered Accountant.

The net worth to be considered for the above purpose will be the cumulative net-worth of the Bidding Company or Consortium, together with the Net Worth of those Affiliates of the Bidder(s) that undertake to contribute the required equity funding. The Net Worth shall be calculated in terms of the definition under sub-section 2 (57) of the Companies Act, 2013 as amended from time to time.

AND

4.4.2 MINIMUM AVERAGE ANNUAL TURNOVER (MAAT)

The Bidder shall demonstrate a Minimum Average Annual Turnover of **Rs.15000/kW (Rupees Fifteen Thousand Rupees Only per kW) of the total quoted capacity** during the three immediately preceding financial years ending on 31.03.2024 i.e FY : 2021-22 , 2022-23, 2023-24, which should be evidenced by Audited Balance Sheet along with Profit & Loss account or a certificate issued by a practicing Chartered Accountant. In case the audited Annual accounts for FY: 2023-24 is not available, bidders shall submit Annual turnover certificate for FY: 2023-24 from a practicing Chartered accountant/Statutory Auditor to demonstrate fulfillment of above criteria. It is hereby clarified that "Other Income" as indicated in the annual accounts of the Bidder shall not be considered for arriving at the annual turnover.

AND

4.4.3 LIQUID ASSETS/WORKING CAPITAL

- a) Bidder shall be required to demonstrate Working Capital or In-principle sanction letter or a Line of Credit from the lending institutions/ banks of the Bidder, committing for a minimum amount of **INR 16,700/kW** (Rs. Sixteen Thousand Seven Hundred only per kW) of the total quoted capacity of financial year ending on 31.03.2024.
- b) The bidder shall provide audited balance sheet/equivalent financial statements. In case the audited Annual accounts for FY: 2023-24 is not available, bidders shall submit Working Capital Certificate from a practicing Chartered Accountant/Statutory Auditor to demonstrate fulfilment of above criteria.

- c) The Bidder may seek qualification on the basis of financial capability of its Affiliate(s) for the purpose of meeting the qualification requirements as per Clauses 4.4.1, 4.4.2 and 4.4.3 above. In case of the Bidder being a Bidding Consortium, any Member may seek qualification on the basis of financial capability of its Affiliate(s). In such cases, the Bidder shall be required to submit Board Resolutions from the respective Affiliate(s), undertaking to contribute the required equity funding and Performance Bank Guarantees/POI in case the Bidder(s) fail to do so in accordance with the RfS. In case of non-availability of the Board Resolution as required above, a letter from the CEO/Managing Director of the respective Affiliate(s), undertaking the above, shall be required to be submitted and the requisite Board Resolution from the Affiliate(s) shall be required to be submitted prior to signing of PPA.
- d) For the purposes of meeting financial requirements, only latest unconsolidated audited annual accounts shall be used. However, audited consolidated annual accounts of the Bidder may be used for the purpose of financial requirements provided the Bidder has at least twenty six percent (26%) equity in each Company whose accounts are merged in the audited consolidated account and provided further that the financial capability of such Companies (of which accounts are being merged in the consolidated accounts) shall not be considered again for the purpose of evaluation of any other response to this RfS.
- e) A Company/Consortium would be required to submit annual audited accounts for the last financial years ending on 2023-24, along with net worth, annual turnover and working capital certificate (as applicable) from a practicing Chartered Accountant/Statutory Auditor to demonstrate fulfilment of the criteria. In case of foreign companies, the Bidders shall be required to submit the annual audited accounts for the last respective financial years as per the general norm in the country where the Bidder or its Affiliate(s) is/ are located.
- **Note:** In case of foreign Bidders, in the event the Bidder is unable to furnish the audited annual accounts for the previous financial year as per the prevalent norm in the respective country, the Bidder shall submit the annual audited accounts of the last three financial years for which the audited accounts are available excluding previous financial year. This, however, would be acceptable, subject to the condition, that the last date of response to this RfS falls on or within the deadline for completion of audit of annual accounts of companies, as stipulated by the laws/rules of the respective country, and the Bidder shall submit the corresponding documentary evidence against the same. In case the annual accounts are submitted in a language other than English, a certified English translation from an approved translator shall be required to be submitted by the Bidder.
 - f) For meeting the above financial eligibility criteria, if the data is provided by the Bidder in a foreign currency, equivalent Indian Rupees of Net Worth and other financial parameters will be calculated by the Bidder using Reserve Bank of India's reference rates prevailing on the date of closing of the accounts for the respective financial year.
 - g) In case of any currency for which RBI reference rate is not available, Bidders shall convert such currency into US Dollar (USD) as per the exchange rates certified by their banker prevailing on the relevant date and used for such conversion. After such conversion, Bidder shall follow the procedure/ submit document as elaborated above.

be met by each Member of the Consortium shall be computed in proportion to the shareholding pattern having by each member in the Project Company.

For example, if two companies A and B form a Consortium with shareholding pattern in 70:30 ratio and submit their bid for a capacity of 100 kW, then, total working capital requirement to be met by the Consortium is Rs. $16,700 \times 100 \text{ kW} = \text{Rs}$. 16.70 Lakh. Minimum requirement of Working capital to be met by Lead Member A would be minimum Rs. 11.69 lakh and to be met by Consortium Member B would be Rs. 5.01 lakh. Similar methodology shall be followed for computation of MAAT.

Note: Wherever applicable, audited accounts for FY: 2023-24 will be required to be submitted for meeting the qualification requirements. In case the audited annual accounts of FY 2023-24 is not available, then bidder shall submit Certificates issued by a practicing CA/Statutory Auditor for FY: 2023-24

4.4.4 CONSORTIUM BIDDERS:

Consortium applications shall comply with the following minimum financial qualifying requirements:

i) The number of members in Consortium not to exceed three (03) with one of the Members being designated as Lead Member.

ii) Lead Member to fully meet the following:

- a) There shall be only one Lead Member, having the shareholding of not less 51% in the Bidding Consortium.
- b) Minimum Average annual turnover and Working Capital in proportion to its shareholding percentage in the consortium.

(iii) The other member to individually meet the following requirements:

- a) The shareholding of other member(s) shall be minimum 20% in the Bidding Consortium and overall Bidding Consortium should meet the 100% requirement.
- (b) All the members of the Consortium to individually fulfill the Minimum Average Annual Turnover/Working Capital criteria specified in the document in proportion to its shareholding percentage in the consortium.
- (iv) The Consortium to collectively satisfy, as a whole, the Financial as well as Technical Requirements specified.
- (v) The parties forming Consortium shall be required to submit a copy of the Consortium agreement already entered into for the purpose. The agreement should contain the role and responsibility of each constituent, the proposed participation share of each member along with the items of work to be executed by each member. It shall also be brought out in the Consortium agreement that in case the Contract is awarded to the Consortium, each member

of the Consortium shall be responsible for execution of that item of work for which he claims to have specific experience.

vi) The shareholding of the Lead member in the Project Company/Special Purpose Vehicle cannot be changed until 01 (ONE) year after the Scheduled Commissioning Date (SCD) of the rooftop plant.

-----END OF SECTION-----

SECTION: V

BID EVALUATION AND SELECTION OF BIDDERS

RFS for SRPD for Design, Supply, Installation, Testing and Commissioning including Warranty, Comprehensive O&M for cumulative capacity of 18 MW Grid Connected RTS Projects (without battery storage) on Union Government Buildings under PM Surya Ghar: Muft Bijli Yojana. (RFS No.: SJVN/RTS/2024-25/Rooftop Solar-5, TSC No. SJVN-2024-TN000015)

Page 43 of 137

<u>SECTION V</u> BID EVALUATION AND SELECTION OF BIDDERS

5.0 BID EVALUATION AND SELECTION OF SUCCESSFUL BIDDERS:

Bid evaluation will be carried out considering the information furnished by Bidders as per provisions of this RfS. The detailed evaluation procedure and selection of bidders are described in subsequent clauses in this Section.

5.1 EVALUATION OF TECHNICAL-COMMERCIAL BIDS (STEP – I):

- 5.1.1 The first envelope (Technical-Commercial Bid submitted online) of only those bidders will be opened whose required documents as mentioned in the RfS are received by SJVN. Bid opening (online) will be done only after the deadline for submission of EMD.
- 5.1.2 Documents (as mentioned in the previous clause) received after the bid submission deadline specified in the Bid Information Sheet shall be rejected and returned unopened, if super- scribed properly with address, to the bidder.
- 5.1.3 SJVN will examine all the documents submitted by the Bidders and ascertain meeting of eligibility conditions prescribed in the RfS. During the examination of the bids, SJVN may seek clarifications/additional documents to the documents submitted etc. from the Bidders if required to satisfy themselves for meeting the eligibility conditions by the Bidders. Bidders shall be required to respond to any clarifications/additional documents sought by SJVN within 07 (seven) days from the date of such intimation from SJVN. All correspondence in this regard shall be made through email/ISN-ETS portal only. It shall be the responsibility of the Bidder to ensure that the email id of the authorized signatory of the Bidder is functional. The Bidder may provide an additional email id of the authorized signatory in the covering letter. No reminders in this case shall be sent. It shall be the sole responsibility of the Bidders to responsible for rejection of any bid on account of the above.
- 5.1.4 The response to RfS submitted by the Bidder shall be scrutinized to establish Techno-Commercial eligibility as per the RfS.
- 5.1.5 DETERMINATION OF RESPONSIVENESS:
 - i) SJVN will examine the Techno-commercial Bids to determine whether they are complete, whether EMD/Bid Security Declaration, RfS tender/Document Fee (if required) have been furnished, whether the bidder has submitted supporting certificates/documents justifying the qualifications/requirements, whether the documents have been properly signed, whether all the requisite declaration, undertakings have been furnished and whether the Technical bids are in order. SJVN may waive any minor informality, non-conformity or irregularity in a bid that does not constitute a material deviation and that does not prejudice or affect the relative ranking of any Bidder as a result of the evaluation of Bids, pursuant to these Clauses.
 - ii) Prior to the detailed evaluation, the SJVN will determine whether each Bid is of acceptable

quality, is complete and is substantially responsive to the RfS Document. For purposes of this determination, a substantially responsive Bid is one that conforms to all the terms, conditions and specifications of the RfS Document without material deviations, objections, conditionality or reservations. A material deviation, objection, conditionality or reservation is one (i) that affects in any substantial way the scope, quality or performance of the Contract; (ii) that limits in any substantial way, inconsistent with the RfS Document, SJVN's rights or the successful Bidder's obligations under the Contract; or (iii) whose rectification would unfairly affect the competitive position of other Bidders who are presenting substantially responsive bids.

iii) If a Bid is not substantially responsive, it will be rejected by the SJVN, and may not subsequently be made responsive by correction or withdrawal of the nonconforming deviation or reservation.

5.1.6 NON-RESPONSIVE BID:

The electronic response to RFS submitted by the bidder along with the documents submitted online to SJVN shall be scrutinized to establish "Responsiveness of the bid". Each bidder's response to RFS shall be checked for compliance with the submission requirements set forth in this RFS. Any of the following conditions shall cause the Bid to be "Non-responsive":

- (a) Non-submission of the requisite Tender Fee/Cost of RFS Document as mentioned in the Bid Information Sheet.
- (b) Response to RfS not received by the due date and time of bid submission
- (c) Non-submission of correct, valid and operative Pass-Phrases for both Technical and Financial Bid (Price Bid) Parts after the deadline of Bid Submission, and before the commencement of the Online Tender Opening Event (TOE) of Technical Bid
- (d) Any indication of tariff in any part of response to the RfS, other than in the financial bid.
- (e) Non-submission of payment details against Tender Fee/Cost of RFS Document .
- (f) Data filled in the Electronic Form of Financial Bid (Second Envelope), not in line with the instructions mentioned in the same electronic form.
- (g) Except for the scenario as per Clause 5.1 above, in case it is found that the Bidding Company including Ultimate Parent Company/ Parent Company/Affiliate/Group Companies have submitted more than one response to this RfS, then all these bids submitted shall be treated as non-responsive and rejected.
- (h) Non-submission or partial submission of EMD in acceptable form along with response to RfS.
- (i) In any of the above cases, the bid shall not be considered for bid opening and evaluation process.

5.2 The Bidder(s) shall be declared as technically qualified provided that their bids are substantially responsive and meet the requirements mentioned at Section-IV: Eligibility Criteria and other terms and conditions as specified in this tender document. The Financial Bids of only those Bidders will be opened who are Techno-Commercially qualified as per the criteria mentioned above.

5.3 FINANCIAL BID EVALUATION (STEP 2):

- 5.3.1 In this step evaluations of Techno-Commercially Qualified Bids shall be done based on the "Fixed Tariff", quoted by the Bidder in the Electronic Form of Financial Bid.
- 5.3.2 Second Envelope (containing Fixed Tariff) of only those bidders shall be opened whose technical bids are found to be qualified as per the RfS.
- 5.3.3 The Bidder including its Parent, Affiliate or Ultimate Parent or any Group Company will have to submit a single bid (single application) quoting a single tariff in Indian Rupee per kWh for the offered quantum of power applied for. The tariff has to be quoted in Indian Rupee per kWh up to two places of decimal only. If it is quoted with more than two digits after decimal, digits after first two decimal places shall be ignored. (For e.g. if the quoted tariff is INR 6.125, then it shall be considered as INR 6.12).
- 5.3.4 In this step, evaluation will be carried out based on tariff quoted by Bidders for each project separately.
- 5.3.5 On completion of technical bid evaluation, if it is found that only one or two Bidder(s) is/are eligible for the next stage, opening of the financial bid of the Bidder(s) will be at the discretion of SJVN. Thereafter, SJVN will take appropriate action as deemed fit.
- 5.3.6 Based on the 'Ranking of bidders after Financial Bid Evaluation: Following illustrates an example of ranking of bidders after financial bid opening and evaluation.

Bidder	Submitted Financial Bid	Ranking
B1	₹ 4.10 (Tariff in ₹/ kWh)	L1
B2	₹ 4.20 (Tariff in ₹/ kWh)	L2
B3	₹ 4.30 (Tariff in ₹/ kWh)	L3
B4	₹ 4.30 (Tariff in ₹/ kWh)	L3
B5	₹ 4.43 (Tariff in ₹/ kWh)	L4
B6	₹ 4.60 (Tariff in ₹/ kWh)	L5
B7	₹ 4.65 (Tariff in ₹/ kWh)	L6

5.4 SELECTION OF SUCCESSFUL BIDDERS:

- 5.4.1 For each state, the Bidder quoting the lowest tariff (L1 tariff) will be identified and shall be declared as the Successful Bidder. In case of multiple Bidders quoting the L1 tariff, then the ranking among these Bidders shall be done as follow:
- 5.4.2 The Bidder who has the highest Minimum Average Annual Turnover as per the documents submitted as a part of their bid, shall be considered as L-1.

- 5.4.3 If there is also a tie among any of these Bidders, then L-1 will be the Bidder who has quoted the highest CUF as per the **Format 7.1** submitted as a part of their bid submission.
- 5.4.4 There shall be no negotiation on the quoted fixed tariff between SJVN/client Organization and the Bidder(s) during the process of evaluation/capacity allocation.

5.5 ISSUANCE OF LETTERS OF AWARD (LoAs) :

- 5.5.1 At the end of selection process, Letters of Award (LoAs) will be issued to the Successful Bidders discovered as above. The LoAs shall be awarded for the Tentative Capacity as quoted by the respective successful bidder, or the partial capacity, as the case may be. In case of a Consortium being selected as the successful Bidder, the LoA will be issued to the Lead Member of the Consortium.
- 5.5.2 In case SJVN is unable to find buyers/off-takers for the tariffs as discovered after the bidding process, SJVN reserves the right to annul the bid process without any financial implications to any of the parties concerned. SJVN reserves the right to cancel any or all of the bids in view of higher tariff discovered or otherwise. In all cases, SJVN's decision regarding selection of Bidder based on tariff or annulment of tender process shall be final and binding on all participating bidders.

-----END OF SECTION-----

SECTION VI: CONDITIONS OF CONTRACT

RFS for SRPD for Design, Supply, Installation, Testing and Commissioning including Warranty, Comprehensive O&M for cumulative capacity of 18 MW Grid Connected RTS Projects (without battery storage) on Union Government Buildings under PM Surya Ghar: Muft Bijli Yojana. (RFS No.: SJVN/RTS/2024-25/Rooftop Solar-5, TSC No. SJVN-2024-TN000015)

Page 48 of 137

SECTION VI CONDITIONS OF CONTRACT

6.1 Scope of Work

- (i) Under this RfS, the selected SPD shall be required to prepare Site Survey, Feasibility Report, Access, Design, Supply, Storage, Civil works (inclusive of construction material & water) Installation, Testing and Commissioning including Warranty, Comprehensive Operation & Maintenance of Solar PV Projects of various capacities of Rooftop Solar on government buildings (including autonomous bodies, sub ordinate offices, CPSEs etc.) of Ministry of Chemical and Fertilizers, Ministry of Agriculture and Farmers Welfare, Ministry of Commerce and Industry, Ministry of Women and Child Development of India, Ministry of Personnel, Public Grievances and Pensions, Ministry of Skill Development & Entrepreneurship, Ministry of Statistics and Programme Implementation, Ministry of Consumer Affairs, Food & Public Distribution as per building defined in Annexure-D under PM Surya Ghar: Muft Bijli Yojana. The O&M of the Project during tenure(25 years) of Power Purchase Agreement will include wear, tear, overhauling, machine breakdown, insurance, and replacement of defective modules, invertors/ Power Conditioning Unit (PCU), spares, consumables & other parts etc.
- (ii) The scope of work of the SPD, inter alia, includes obtaining No Objection Certificate (NOC) from the respective state Distribution Company (DISCOM) for grid connectivity/metering (as applicable).
- (iii) The work of Rooftop Solar PV Plant will be implemented in RESCO/ PPA mode.
- (iv) Obtaining Net-metering and grid connectivity of the Project would be the responsibility of the SPD in accordance with the prevailing guidelines of the respective State Regulators (SERC) or Central Electricity Authority (CEA) or the DISCOM in the respective area, as applicable. The respective Client could facilitate connectivity and necessary approvals; however, the entire responsibility lies with the SPD/vendor itself.
- (v) The SPD shall take all necessary permits, approvals and licenses, insurance etc., and such other items and services required to complete the scope of work mentioned above.
- (vi) Detailed technical parameters for Solar PV project to be met by SPDs are at Annexure-B. The Bidders shall strictly comply with the technical parameters detailed in the Annexure-B. The provisions as contained in the O.M. dated 10.03.2021 issued by MNRE on the subject "Approved Models and Manufacturers of Solar Photovoltaic Modules (Requirement of compulsory Registration) Order, 2019- Implementation Reg." and its subsequent amendments and clarifications issued shall be applicable. The Modules used in the project should have included in the List I (Manufactures and Models of Solar PV Modules) and List-II (for Solar PV Cell) of the ALMM MNRE Order applicable under the above Order, valid as on the date of invoicing of such modules. Rest of the components can be procured from any source. However, these items should meet the Technical specification and standards mentioned in RfS Annexure-B and Annexure-C.

RFS for SRPD for Design, Supply, Installation, Testing and Commissioning including Warranty, Comprehensive O&M for cumulative capacity of 18 MW Grid Connected RTS Projects (without battery storage) on Union Government Buildings under PM Surya Ghar: Muft Bijli Yojana. (RFS No.: SJVN/RTS/2024-25/Rooftop Solar-5, TSC No. SJVN-2024-TN000015)

Page **49** of **137**

- (vii) The Roof Top Solar Plant will be developed as per the Guidelines issued by the Government of India from time to time for development of grid connected rooftop Solar PV systems and MNRE guidelines for PM Surya Ghar : Muft Bijli Yojana for Government Buildings.
- (viii) The bidders are advised to take cognizance of the O.M. dated 09.03.2021 issued by MNRE, on the subject of "Imposition of Basic Customs Duty (BCD) on Solar Cells & Modules/Panels", while preparation of their response to this RfS. The above O.M. and its associated orders issued by the Ministry of Finance will be applicable on this tender and imposition of taxes/duties as laid out in the above OM, will not be considered under "Change in Law" under the PPA.
 - (ix) Under this RfS, it is proposed to promote only commercially established and operational technologies to minimize the technology risk and to achieve timely commissioning of the Projects. The Bidder may indicate regarding the selection of technology and its details at the time of submission of bids in the prescribed Format 7.8

6.2 TOTAL CAPACITY OFFERED

6.2.1 The estimated cumulative Project capacity envisaged for the client organizations is around 18000 kW. The project wise buildings details under the Client Organizations have been annexed at Annexure-D. The final capacity to be installed will be finalized at the time of signing of PPA between the SPD and the Client Organization/SJVN.

The selected SPD shall submit the documentary evidence/project feasibility report distinctly furnishing site wise/location wise capacities for concluding of Project/Plant capacity for PPA within **10 Days** from issuance of LOA. The acceptance of final project capacity shall be on SJVN / Client organization discretion.

6.3 PROJECT LOCATIONS

- **6.3.1** The Project shall be installed at various locations in campus of the client organizations.
- 6.3.2 To facilitate the Bidders, an indicative list of possible rooftops has been enclosed as Annexure-D.
- **6.3.3** If required, for setting up RTS Projects, the prospective bidders/developers may visit to the respective sites and assess the feasibility of Rooftop space, building structure etc including installation capacity in consultation with respective rooftop owner/SJVN. SJVN shall not bear any responsibility in this regard.

6.4 PROJECT CONFIGURATION:

- **6.4.1** The term "Project" shall have the meaning as defined in Section II of the RfS. A single Project shall refer to one or multiple Rooftop Solar Plant (s) installed on a single/group of buildings connected to the grid through a single or multiple meters or standalone system at **one premises**.
- **6.4.2** A Single Power Purchase Agreement shall be signed for one Project. The SPD shall be responsible for obtaining Connectivity/Net-metering for each Project.
- 6.4.3 Configuration of each project shall be decided mutually between Client organization/SJVN and

Page 50 of 137

Successful bidders.

6.5 MAXIMUM ELIGIBILITY FOR CONTRACTED CAPACITY ALLOCATION FOR A BIDDER:

Following conditions shall be applicable to the Bidders for submission of bids against this RfS:

6.5.1 A Bidder, including its Parent, Affiliate or Ultimate Parent or any Group Company shall submit a single bid for maximum of all projects offering a total quantum of Contracted Capacity of 18000 kW. The bidder has option to submit a bid for one or more States. The bid for a particular State comprises of the bid for all the projects located in that State. Bid for split or part capacity mentioned for the State is not permitted.

Note: In case a common Company/Companies directly or indirectly hold(s) more than 10% but less than 26% shareholding in more than one Bidder participating in the RfS, each one of such Bidders will be required to submit the Disclosure as per **Format 7.8A**. In all other cases, Format 7.8 will be applicable.

- **6.5.2** The total capacity to be allocated to a Bidder including its Parent, Affiliate or Ultimate Parent or any Group Company shall be up to **18000 kW for state(s) respectively.**
- **6.5.3** The evaluation of bids shall be carried out as described in Section-5 of the RfS. The methodology for Allocation of Project is elaborated in Section-5 of the RfS.
- **6.5.4** Subject to the exception as per Clause 6.5.1 above, multiple bids from same company including its Parent/Ultimate Parent/Affiliates/Group Companies shall make all the bids submitted by the group invalid.

6.6 Connectivity with the Grid

- **6.6.1** The Project should be designed for interconnection with the grid in accordance with prevailing CERC/SERC/DISCOM regulations in this regard. For interconnection with the grid and metering, the SPD shall abide by applicable Grid Code, Grid Connectivity Standards, Regulations on Communication System for transmission of electricity and other regulations/procedures (as amended from time to time) issued by Appropriate Commissions and Central Electricity Authority (CEA), and any other regulations of the concerned DISCOM where the Project is located. Minimum voltage level for interconnection with the grid shall be as determined by the respective DISCOM.
- **6.6.2** The responsibility of getting connectivity and necessary approvals for grid connection and netmetering shall entirely be with the SPD and shall be at the risk and cost of the SPD. The transmission of power up to, and including at the point(s) of interconnection where metering is done for energy accounting, shall be the responsibility of the SPD at its own cost. The maintenance of transmission system up to and including at the Interconnection Point shall be responsibility of the SPD, to be undertaken entirely at its risk and cost.
- **6.6.3** Metering arrangement of each Project shall have to be adhered to in line with relevant clauses of the PPA. The entire cost of transmission (if applicable) and any other charges from the Project up to and including at the Interconnection Point(net -metering point) will be borne by the SPD.

RFS for SRPD for Design, Supply, Installation, Testing and Commissioning including Warranty, Comprehensive O&M for cumulative capacity of 18 MW Grid Connected RTS Projects (without battery storage) on Union Government Buildings under PM Surya Ghar: Muft Bijli Yojana. (RFS No.: SJVN/RTS/2024-25/Rooftop Solar-5, TSC No. SJVN-2024-TN000015)

Page 51 of 137

6.7 Commissioning of Projects

When the SPD fulfils its obligation under the PPA, he shall be eligible to apply for completion/commissioning certificate. SJVN and /or Client organization shall issue the completion certificate to the SPD within one month after receiving any application therefore from the SPD, subject to verification of the documents as per the PPA. For the issuance of commissioning/completion certificate, the following documents will be deemed to form the completion documents.

- (a) At least Two week (14 days) prior intimation to SJVN and the Client Organization for witnessing the Project's inspection/performance.
- (b) Project Completion Report (PCR) containing the detailed checklist for inspection of Roof top SPV power plants as per SJVN's format. (Annexure-H)
- (c) Photographs of the Project.

6.7.1 Commissioning Schedule and Penalty for Delay in Commissioning

- a. The Scheduled Commissioning Date (SCD) for commissioning of full capacity of the each Projects shall be the date as on **09 Months** from the Effective Date of PPA (for e.g. if Effective Date of the PPA is 01.01.2025, then SCD shall be 30.09.2025). The commissioning schedule of the each Project shall be submitted to SJVN before signing of PPA.
- b. The maximum time period allowed for commissioning of the full Project Capacity with applicable penalty shall be limited to the date as on **01 Months** from the SCD or the extended SCD (if applicable) (for e.g. if SCD of the Project is 01.07.2025, then the above deadline for Project commissioning shall be 31.07.2025).
- c. In case of delay in commissioning of the Project beyond the SCD until the date as per Clause 6.7.1.b above, as part of the penalty, the total PBG amount for the Project shall be encashed on per-day-basis and proportionate to the balance capacity not commissioned. For example, in case of a Project of 400 kW capacity, if commissioning of 200 kW capacity is delayed by 20 days beyond the SCD, then the liquidated damages shall be: (PBG amount) X (200/400) X (20/270). For the purpose of calculations of the liquidated damages, 'month' shall be considered consisting of 30 days.
- d. In case Commissioning of the Project is delayed beyond the date as per Clause 6.7.1b above, the PPA capacity shall stand reduced/amended to the Project Capacity commissioned and the PPA for the balance capacity will stand terminated.

6.8 POWER SUPPLY BY THE SOLAR POWER DEVELOPER:

6.8.1 Criteria for Energy Supply

The Bidders will declare the annual CUF of the Project at the time of submission of response to RfS, and the SPDs will be allowed to revise the same once within first year after SCD. Thereafter, the CUF for the Project shall remain unchanged for the entire term of the PPA. The declared annual CUF shall in no case be less than 15 % for Project to be set up in the States of Delhi, Punjab, Rajasthan, Haryana, Uttar Pradesh, Bihar, Jharkhand, Madhya Pradesh, Chhattisgarh, Gujarat, Maharashtra, Goa, Kerala, Telangana, Andhra Pradesh. It shall be

the responsibility of the SPD, entirely at its cost and expense to install such number of Solar panels and associated equipment as may be necessary to achieve the required CUF for the entire term of PPA. The SPD shall maintain generation so as to achieve annual energy supply corresponding to CUF within + 10% and -15% of the declared value till the end of 10 years from SCD, subject to the annual CUF remaining minimum of 15%, and within +10% and -20% of the declared value of the annual CUF thereafter till the end of the PPA term. The lower limit will, however, be relaxable to the extent of Force Majeure events and non-availability of grid during solar generation hours, for evacuation which is beyond the control of the SPD. The annual CUF will be calculated every year from 1st April of the year to 31st March next year. Relaxation to the non- availability of grid beyond the control of SPD need to be certified by Client. Further, duly signed hindrance register shall be maintained during the time of execution and O&M.

6.8.2 Shortfall in Energy Supply

Subsequent to Project commissioning, if for any Contract Year, except for the first financial year after Project commissioning, it is found that the SPD has not been able to supply minimum energy corresponding to the value of annual CUF within the permissible lowerlimit of CUF declared by the SPD, the SPD shall be levied **liquidated damages @50% of the PPA** tariff for the shortfall in energy terms, in accordance with terms of the PPA. The liquidated damages shall be recovered on 3 monthly installments starting from next year regular electricity monthly bill raised by SPD.

6.9 Operation & Maintenance (O&M)

- **6.9.1** The SPD shall be responsible for all the required activities for successful O&M of the Rooftop Solar PV systems during the entire PPA term from the date of commissioning of the Project.
- **6.9.2** Following guidelines shall be followed in this regard. In addition, following O&M practices shall be strictly followed.
 - a) O&M of the Project shall be compliant with grid requirements to achieve committed energy generation//CUF.
 - b) Deputation of qualified and experienced engineer/ technicians till the O&M period at project site as & when required as per site conditions.
 - c) Periodic cleaning of solar modules. The modules shall be cleaned with a periodic interval of 15 days or as and when required as per actual site conditions. It's the responsibility of the SPD to get the modules cleaned during O&M Period.
 - d) A "hindrance register" shall be maintained to record any issues affecting Project O&M. The same shall be duly signed by both parties of the PPA/client.
 - e) Periodic checks of the Modules, PCUs and BoS shall be carried out as a part of routine, preventive and breakdown maintenance.
 - f) Replacement of defective Modules, Invertors/PCUs and other equipment, as and when required, will be carried out within 15 working days from the date of reporting defect which can be extended based on the site accessibility, etc. as mutually agreed by the two parties.
 - g) Supply of all spares, consumables and fixtures as required. Such stock shall be maintained for all associated equipment and materials as per manufacturer's /supplier's recommendations.
 - h) All the testing instruments required for Testing, Commissioning and O&M for the healthy operation of the Plant shall be maintained by the SPD. The testing equipmentmust be calibrated once in a year from NABL accredited labs and the certificate of calibration must be kept for

reference as required.

- i) If negligence/ mal-operation on part of the SPD's operator results in failure of equipment, such equipment should be repaired/ replaced by the SPD free of cost.
- j) Co-ordination with Owner/ DISCOM/ CEIG as per the requirement for Joint Meter Reading (JMR) Report. The person-in-charge present at site from the SPD's side shall take a joint meter reading in the presence of representative of rooftop owner/client organization on a monthly basis.
- k) Online Performance Monitoring, controlling, troubleshooting, maintaining of logs & records. A maintenance record register is to be maintained by the SPD with effect from Commissioning to record the daily generation, regular maintenance workcarried out as well as any preventive and breakdown maintenance along with the date of maintenance, reasons for the breakdown, duration of the breakdown, steps taken to attend the breakdown, etc.
- 1) For any issues related to operation & maintenance, a toll-free number shall be made available to the rooftop owner/client organization to resolve the same within 72 hours.
- m) If any jobs covered in O&M Scope as per RfS are not carried out by the SPD during the O&M period, the Client Organization/SJVN shall take appropriate action as per terms & conditions of this RfS.SJVN/Client organization reserves the right to make surprise checks/ inspection visits at its own or through authorized representative to verify the O&M activities being carried out by the SPD. Failure to adhere to above guidelines may result in penal action including debarring from participation in next tender.
- n) It is up to SPD and Client organization to mutually decide on the source and amount of water to be supplied for module cleaning during O&M period.

6.10 Performance Bank Guarantee (PBG)

6.10.1 Bidders selected by SJVN based on this RfS shall submit Performance Guarantee for a value Rs.2500/Kw of accepted final project capacity within 10 days from intimation for signing of PPA for each project individually. The PBG shall be submit on the final capacity of PPA to be signed. It may be noted that successful Bidders shall submit the Performance Guarantee according to the Format 7.3C with a validity period up to (& including) the date as on 12 (Twelve) months after the SCD. On receipt and after successful verification of the total Performance Bank Guarantee in the acceptable form, the BG submitted towards EMD (equivalent to cumulative quoted capacity) shall be returned by SJVN to the successful Bidder. If any extension of the Scheduled Commissioning Date (SCD) is granted to the project, the PBG shall also be extended in such a way that it remains valid for 12 (Twelve)-months beyond the extended the Scheduled Commissioning Date (SCD). PBG shall be submitted for each project separately. It may be noted that PPA will be signed only upon successful verification of the PBG submitted by the SPD.

Electronic Bank Guarantee (e-BG) is also acceptable against PBG under this RfS

- **6.10.2** The PBG is required to be submitted in the name of the SJVN/Client organisation before signing the PPA. In case of PPA being eventually signed with the SPV incorporated/utilized by the successful bidder, the PBG may be submitted in the name of the successful bidder at an earlier date, if the bidder chooses to do so, and the same shall be replaced by the PBG issued in the name of the SPV, prior to signing of PPA.
 - **6.10.3** The SPD shall furnish the PBG from any of the Scheduled Commercial Banks as listed on the website of Reserve Bank of India (RBI) and amended as on the date of issuance of bank

guarantee. Bank Guarantee issued by foreign branch of a Scheduled Commercial Bank is to be endorsed by the Indian branch of the same bank or State Bank of India (SBI). In case of the Project being implemented through a SPV incorporated by the successful bidder, the PBG shall be furnished in the name of the SPV.

- **6.10.4** The format of the Bank Guarantees prescribed in the Format 7.3 A (EMD)/ 7.3 C (PBG) shall be strictly adhered to and any deviation from the above Formats shall result in rejection of the EMD/PBG and consequently, the bid. In case of deviations in the formats of the Bank Guarantees, the corresponding PPA shall not be signed.
- **6.10.5** SJVN has agreed to accept the PBG in the form of an unconditional and irrevocable Bank Guarantee instead of the cash deposit with the clear position intimated to the bidder that the PBG shall be encashable for being appropriated by SJVN in terms of the guarantee as in the case of appropriation of the cash deposit lying with SJVN.
- **6.10.6** The selected Bidder for the Project selected based on this RfS is required to sign PPA with Client Organisation/SJVN within the timeline as stipulated in Clause 6.12 of the RfS. In case, Client Organisation/SJVN offers to execute the PPA with the Selected Bidder and if the Selected Bidder does not submit the requisite documents as per Clause 6.12 (Power Purchase Agreement (PPA)of the RfS, or does not meet eligibility criteria upon submission of documents, or does not execute the PPA within the stipulated time period, then the Bank Guarantee equivalent/security to the amount of the EMD shall be encashed by SJVN from the Bank Guarantee/security available with SJVN (i.e. EMD or PBG) as liquidated damages not amounting to penalty, the selected Project shall stand cancelled and the selected Bidder expressly waives off its rights and objections, if any, in that respect.
- **6.10.7** The Bank Guarantees have to be executed on non-judicial stamp paper of appropriate value as per Stamp Act relevant to the place of execution.
- **6.10.8** All expenditure towards execution of Bank Guarantees such as stamp duty etc. shall be borne by the Bidders/SPDs. Any Bank Guarantee or amendment if any, submitted as part of the bidding process / contract execution, shall be effective only when the BG issuance message is transmitted by the issuing bank through SFMS (in case of BGs issued from within India) or SWIFT (in case of BGs issued from outside India) to the following branch;.

i	Bank Name	State Bank of India, CAG Branch
ii	Branch	CAG Branch
iii	Bank Address	5th Floor, Parswanath Capital Tower, Bhai Veer Singh Marg, Gol Market, New Delhi-110001,
iv	IFSC Code	IFSC code: SBIN0017313

6.10.9 In case of Bank Guarantees issued by foreign branch of a Scheduled Commercial Bank, the same is to be endorsed by the Indian branch of the same bank or SBI, and the endorsing bank would be required to provide the SFMS confirmation.

RFS for SRPD for Design, Supply, Installation, Testing and Commissioning including Warranty, Comprehensive O&M for cumulative capacity of 18 MW Grid Connected RTS Projects (without battery storage) on Union Government Buildings under PM Surya Ghar: Muft Bijli Yojana. (RFS No.: SJVN/RTS/2024-25/Rooftop Solar-5, TSC No. SJVN-2024-TN000015)

Page 55 of 137

6.10.10 After the bidding process is over, SJVN shall release the EMD of the unsuccessful Bidders within **30 days** from issuance of letter of award to successful bidders. The PBG of SPDs shall be returned to them, within **30 days** from the date of expiration of validity of PBG as per Terms of PPA, after taking into account any liquidated damages due to delays in commencement of supply of power etc as per Clause 6.8.2 of the RfS.

6.10.11 PAYMENT ON ORDER INSTRUMENT (POI):

As an alternative to submission of PBG as above, the SPD also has an option to submit a letter of undertaking issued by either of the following three organizations, viz. (i) Indian Renewable Development agency Limited (IREDA) or (ii) Power Finance Corporation Limited or (iii) REC Limited. This Letter of Undertaking shall be issued as "Payment on Order Instrument" (POI), wherein the POI issuing organization undertakes to pay in all scenarios under which the PBG would be liable to be encashed by SJVN within the provisions of RfS/PPA. This instrument would have to be furnished as per **Format 7.3 D** of the RfS, within the timelines as per Clause 6.10.1 above, for the amount and validity period as per those Clause 6.10.1

In case the SPD chooses to submit POI, delay in submission of the POI beyond the timeline stipulated at Clause above, will be applicable in this case too.

6.11 SERVICE CHARGE

- **6.11.1** The Selected Bidder shall pay service charge @ Rs.1500 per kW per project (Indian Rupees One Thousand Five Hundred per kW per project) + applicable taxes to SJVN.
- **6.11.2** The service charge per project will be calculated on the total Project capacity for which PPA to be signed by the SPD. These full charge will be paid to SJVN within Seven days from SJVN intimation letter for signing of PPA& before date of signing of PPA. The service charge paid to SJVN are non-refundable.
- **6.11.3** Service charge are to be paid by the SPD in the form of DD/ Pay Order/ NEFT/ RTGS. In case of delay in signing of PPA by SPD within 21 days from date of SJVN intimation letter for the PPA or mutually agreed extended date, the awarded capacity shall stand cancelled and BG against EMD will be encashed by SJVN. In case SPD could not sign PPA due to reason attributed to Client organization within 60 days from issuance of LOA or mutually agreed extended date, the LOA will be cancelled without any financial implication to the SPD/SJVN/Client organization.
- 6.11.4 The PPA shall be signed only after receipt of the full service charge to SJVN & PBG by SPD

6.12 POWER PURCHASE AGREEMENT (PPA)

6.12.1 The Client Organization/SJVN shall enter into Power Purchase Agreements (PPA) with Successful bidder selected based on this RfS. A copy of standard PPA to be executed between the two parties is available on the ISN-ETS Portal and also on SJVN's website. The PPA shall be signed within **60 days** from the date of issue of Letter of Award (LoA), if not extended by SJVN/Client Organization. (for e.g. If the LoA is dated 01-09-2024, then the last date of signing of PPA shall be 30-10-2024). Subsequent extension in this timeline shall be finalized

as mutually agreed by the Client Organization/SJVN and the SPD. PPA will be executed between Client Organization/SJVN and selected bidder, or its SPV, separately for each Project. The PPA shall be valid for a period of 25 years from actual/extended date of commissioning of the Project.

- **6.12.2** In case, the client organization fails/deny to convey its acceptance towards the final project capacity submitted by SPD (refer clause 6.2.1 above) which in turn is required to conclude the PPA; then in such case(s) the EMD of the successful bidder shall be refunded without any bearing interest or other charges. Further, in case(s), where the Client Organization deny/fails to sign the PPA even after conveying its acceptance towards final project capacity submitted by SPD ; then only EMD & PBG submitted by the SPD shall be refunded without any interest or other charges.
- **6.12.3** Bidder has to make the complete and careful examinations of feasibility of grid connected rooftop capacity estimation as per the load study of buildings and respective State Electricity regulation of net metering The selected SPD shall submit the documentary evidence/project feasibility report for finalization of project capacity for PPA within **10 days** from issuance of LOA. The acceptance of final project capacity shall be on SJVN / Client organization discretion.
- **6.12.4** Under this RfS, it is proposed to promote only the commercially established and operational technologies to minimize the technology risk and to achieve timely commissioning of the Projects. The bidder is required to meeting the criteria as mentioned in section 4 in line with provisions of the RfS.

-----END OF SECTION-----

SECTION VII:

FORMS & FORMATS FOR BID SUBMISSION

RFS for SRPD for Design, Supply, Installation, Testing and Commissioning including Warranty, Comprehensive O&M for cumulative capacity of 18 MW Grid Connected RTS Projects (without battery storage) on Union Government Buildings under PM Surya Ghar: Muft Bijli Yojana. (RFS No.: SJVN/RTS/2024-25/Rooftop Solar-5, TSC No. SJVN-2024-TN000015)

Page 58 of 137

FORMAT 7.1

COVERING LETTER

(The Covering Letter should be submitted on the Letter Head of the Bidding Company/Lead Member of Consortium)

Ref.No.....

Date:

From...... (Insert name and address of Bidding Company/ Lead Member of Consortium)

.....

Tel.#: Fax#: E-mail #

To,

SJVN Limited 6th Floor, Tower-1, NBCC Office Complex, East Kidwai Nagar, New Delhi - 110 023

Subject: Response to RfS No. dated for (Insert title of the RfS)

Dear Sir/ Madam,

We, the undersigned......[Insert name of the 'Bidder'] having read, examined and understood in detail the RfS including Qualification Requirements in particular, terms and conditions of the standard PPA for supply of power for the Term of the PPA to SJVN/client organisation, hereby submit our response to RfS.

We confirm that in response to the aforesaid RfS, neither we nor any of our Ultimate Parent Company/ Parent Company/ Affiliate/ Group Company has submitted response to RfS other than this response to RfS, directly or indirectly, in response to the aforesaid RfS(as mentioned in Format 7.8 under Disclosure) **OR** We confirm that in the response to the aforesaid RfS, we have a Group Company who owns more than 10% but less than 26% in the bidding company as well as other companies who may participate in this RfS, and accordingly, we have submitted requisite undertaking as per Format 7.8A in this regard (strike out whichever is not applicable).

	Sr.No.	Quoted Project Capacity as per tender (in kW)	Proposed CUF
Ī			

1. We give our unconditional acceptance to the RfS, dated*[Insert datein* dd/mm/yyyy], and standard PPA, issued by SJVN. In token of our acceptance to the RfS, PPA documents along with the amendments and clarifications issued by SJVN, the same have been digitally signed by us and enclosed with the response to RfS. We shall ensure that the PPA is executed asper the provisions of the RfS and provisions of PPA and shall be binding on us. Further, we confirm. Further, we confirm that the Project shall be commissioned within the deadline as per Clause 6.7 of the RfS.

2. Single Earnest Money Deposit (EMD):- (Please read Clause 3.10 carefully before filling)

We have enclosed EMD of INR......(Insert Amount), in the form of Bank Guarantee/DD/POI/NEFT/RTGS...... [Insert bank guarantee/Bank name/UTR] dated.....Insert date of bank guarantee/ Bank name/UTR] as per Format 7.3A/7.3B from.[Insert name of bank providing bank guarantee issuing agency] and valid up to...... in terms of Clause No. 3.10 of this RfS. The total quoted Project capacity offered by us is kW [Insert quoted capacity proposed]. (Strike off whichever is not applicable).

- **3.** We hereby declare that in the event our Project(s) get selected and we are not able to submit Bank Guarantee of the requisite value(s) towards PBG, Services charge for the selected Projects, within due time as mentioned in Clause Nos. 6.10 & 6.11 of this RfS on issue of LoA by SJVN for the selected Projects and/ or we are not able to sign PPA with SJVN/client organisation within the timeline as stipulated in the RfS for the selected Projects, SJVN shall have the right to encash the EMD submitted by us and return the balance amount(if any) for the value of EMD pertaining to unsuccessful capacity.
- **4.** We have submitted our response to RfS strictly as per Section VII (Forms and Formats for bid submission) of this RfS, without any deviations, conditions and without mentioning any assumptions or notes in the said Formats.
- **5.** Acceptance:- We hereby unconditionally and irrevocably agree and accept that the decision made by SJVN in respect of any matter regarding or arising out of the RfS shall be binding on us. We hereby expressly waive and withdraw any deviations from the provisions of the RfS and all claims in respect of this process.

We also unconditionally and irrevocably agree and accept that the decision made by SJVN in respect of award of Projects according to our preference order as above and in line with the provisions of the RfS, shall be binding on us.

6. Familiarity with Relevant Indian Laws & Regulations:- We confirm that we have studied the provisions of the relevant Indian Laws and Regulations as required to enable us to submit this response to RfS and execute the PPA, in the event of our selection as Successful Bidder.

In case of our selection as the Successful bidder under the scheme and the project being executed by a Special Purpose Vehicle (SPV) incorporated by us which shall be our subsidiary we shall infuse necessary equity to the requirements of RfS. Further we will submit a Board Resolution prior to signing of PPA with SJVN/client organisation, committing total equity infusion in the SPV as per the provisions of RfS.

7. We are submitting our response to the RfS with formats duly signed as desired by you in the RfS online for your consideration.

- **8.** It is confirmed that our response to the RfS is consistent with all the requirements of submission as stated in the RfS, including all clarifications and amendments and subsequent communications from SJVN.
- **9.** We undertake that the onus of locating the buildings/ rooftops and completing the other documentation like finalizing the Project report and entering into agreements with the buildings/ rooftops owners lies with us and that SJVN does not bear any responsibility in this regard.
- **10.** The information submitted in our response to the RfS is correct to the best of our knowledge and understanding. We would be solely responsible for any errors or omissions in our response to the RfS.
- 11. We confirm that all the terms and conditions of our Bid are valid up to......(Insert date in dd/mm/yyyy) for acceptance [i.e. a period of 12 months from the last date of submission of response to RfS].
- **12.** Contact Person:

Details of the representative to be contacted by SJVN are furnished as under:

Name	:	 	•••	•••		•••	•••		••	•••	•••	•••	•••	 •••	•	••
Designation	:	 	•••	•••		•••	•••		••	•••	•••	•••	•••	 	•	••
Company	:	 •••	•••	•••		•••	•••	•••		•••	•••	•••		 	•	
Address	:	 •••	•••	•••		•••	•••	• • •	••	•••	•••	•••	•••	 	•	••
Phone Nos.	:	 	•••	•••		•••	•••		•••	•••		•••		 •••	•	•••
Mobile Nos.	:	 •••	•••	•••		•••	•••		•••	•••	•••	•••		 	•	
Fax Nos.	:	 	•••	•••		•••	•••		••	•••	•••	•••		 •••	•	
E-mail address:		 •••	•••	•••	•••	•••	•••		•••	•••	•••	• • •		 	•	•••

13. We have neither made any statement nor provided any information in this Bid, which to the best of our knowledge is materially inaccurate or misleading. Further, all the confirmations, declarations and representations made in our Bid are true and accurate. In case this is found to be incorrect after our selection as Successful Bidder, we agree that the same would be treated as a seller's event of default under PPA and consequent provisions of PPA shall apply.

Dated the _____ day of _____, 20....

Thanking you, We remain, Yours faithfully,

Name, Designation, Seal and Signature of Authorized Person in whose namePower of Attorney/ Board Resolution/ Declaration

FORMAT 7.2

FORMAT FOR POWER OF ATTORNEY

(Applicable Only in case of Consortiums)

(To be provided by each of the other members of the Consortiumin favour of the Lead Member)

(To be stamped in accordance with Stamp Act, the Non-Judicial Stamp Paper of Appropriate Value)

We also authorize the said Lead Member to undertake the following acts:

- (i) To submit on behalf of Consortium Members response to RfS.
- (ii) To do any other act or submit any information and document related to the above response to RfS Bid.

It is expressly understood that in the event of the Consortium being selected as Successful Bidder, this Power of Attorney shall remain valid, binding and irrevocable until the Bidding Consortium achieves the commissioning of project.

We as the Member of the Consortium agree and undertake to ratify and confirm all whatsoever the said Attorney/ Lead Member has done on behalf of the Consortium Members pursuant to this Power of Attorney and the same shall bind us and deemed to have been done by us.

IN WITNESS WHEREOF M/s....., as the Member of the Consortium have executed these presents on this...... day of under the Common Seal of our company.

For and on behalf of Consortium Member

M/s.....

.....

(Signature of person authorized by the board)

Name: Designation: Place: Date:

Accepted:

(Signature, Name, Designation and Address of the person authorized by the board of the Lead Member)

Attested

.....

(Signature of the executant)

.....

(Signature & stamp of Notary of the place of execution)

Place: Date:

Lead Member in the Consortium shall have the controlling shareholding in the Company as defined in Section-II, Definition of Terms of the RfS.

FORMAT 7.3A

FORMAT FOR BANK GUARANTEE TOWARDS EARNEST MONEY DEPOSIT(EMD) (TO BE SUBMITTED SINGLE EMD FOR CUMMULATIVE QUOTED BID CAPACITY)

(To be stamped in accordance with Stamp Act, the Non-Judicial Stamp Paper of Appropriate Value)

Reference:
Bank Guarantee No.:
Date:

The Guarantor Bank hereby agrees and acknowledges that the SJVN shall have a right to invoke this BANK GUARANTEE in part or in full, as it may deem fit.

The Guarantor Bank hereby expressly agrees that it shall not require any proof in addition to the written demand by SJVN, made in any format, raised at the above-mentioned address of the Guarantor Bank, in order to make the said payment to SJVN.

The Guarantor Bank shall make payment hereunder on first demand without restriction or conditions

and notwithstanding any objection by [Insert name of the Bidder] and/ or any other person. The

Guarantor Bank shall not require SJVN to justify the invocation of this BANK GUARANTEE, nor shall the Guarantor Bank have any recourse against SJVN in respect of any payment made hereunder.

This BANK GUARANTEE shall be interpreted in accordance with the laws of India and the courts at New Delhi shall have exclusive jurisdiction.

The Guarantor Bank represents that this BANK GUARANTEE has been established in such form and with such content that it is fully enforceable in accordance with its terms as against the Guarantor Bank in the manner provided herein.

This BANK GUARANTEE shall not be affected in any manner by reason of merger, amalgamation, restructuring or any other change in the constitution of the Guarantor Bank.

This BANK GUARANTEE shall be a primary obligation of the Guarantor Bank and accordingly SJVN shall not be obliged before enforcing this BANK GUARANTEE to take any action in any court or arbitral proceedings against the Bidder, to make any claim against orany demand on the Bidder or to give any notice to the Bidder or to enforce any security held by SJVN or to exercise, levy or enforce any distress, diligence or other process against the Bidder.

This BANK GUARANTEE shall be effective only when the Bank Guarantee issuance message is transmitted by the issuing Bank through SFMS to State Bank of India, CAG Branch, 5th Floor, Parswanath Capital Tower, Bhai Veer Singh Marg, Gol Market, New Delhi-110001 IFSC code: SBIN0017313, Client Name: SJVN Ltd.

We are liable to pay the guaranteed amount or any part thereof under this Bank Guarantee only if SJVN serves upon us a written claim or demand.

Signature: Name: Power of Attorney No.:....

For

......[Insert Name and Address of the Bank]

Contact Details of the Bank:

E-mail ID of the Bank:

Banker's Stamp and Full Address.

Dated this day of, 20

FORMAT 7.3 B

FORMAT OF PAYMENT ON ORDER INSTRUMENT TO BE ISSUED BY IREDA/REC/PFC (IN LIEU OF BG AGAINST EMD)

No.

Date: Registered

To, SJVN Limited 6th Floor, Tower-1, NBCC Office Complex, East Kidwai Nagar, New Delhi – 110023

Reg: M/s (*insert name of the Bidder*) – Issuance of Payment on Order Instrument for an amount of Rs.

Dear Sir,

- 3) In consideration of the[Insert name of the Bidder] (hereinafter referred to as 'Bidder') submitting the response to RfS inter alia for "Selection of Solar Rooftop Power Developers for Setting up ofkW Grid connected Rooftop Solar Power Projects in the state/UT of Under Tariff –Based Competitive Bidding" under PM Surya Ghar: Muft Bijli Yojana" of thecumulative capacity ofkW [Insert Bid capacity / Contracted Capacity proposed]

- 4) In consideration of the above facts, IREDA/REC/PFC, having its registered office at, agrees to make payment for the sum of INR lakhs (in words) to SJVN on the following conditions:
 - (a) IREDA/REC/PFC agrees to make payment of the above said amount unconditionally, without demur and without protest within a period of days of receipt of request from SJVN within the validity period of this letter as specified herein;
 - (b) The commitment of IREDA/REC/PFC, under this Payment of Order Instrument will have the

same effect as that of the commitment under the Bank Guarantee issued by any Public Sector

Bank and shall be enforceable in the same manner as in the case of a Bank Guarantee issued by a Bank and the same shall be irrevocable and shall be honored irrespective of any agreement or its breach between IREDA/REC/PFC or its constituents notwithstanding any dispute that may be raised by the against SJVN;

- (c) The liability of IREDA/REC/PFC continues to be valid and binding on IREDA/REC/PFC and shall not be terminated, impaired and discharged, by virtue of change in its constitution and specific liability under letter of undertaking shall be binding on its successors or assignors;
- (d) The liability of IREDA/REC/PFC shall continue to be valid and binding on IREDA/REC/PFC and shall not be terminated/ impaired/ discharged by any extension of time or variation and alternation made given or agreed with or without knowledge or consent of the parties (SJVN and Bidding Party), subject to the maximum extent of amount stated herein and IREDA/REC/PFC is not liable to any interest or costs etc;
- (e) This Payment on Order Instrument can be invoked either partially or fully, till the date of validity;
- (f) IREDA/REC/PFC agrees that it shall not require any proof in addition to the written demand by SJVN made in any format within the validity period. IREDA/REC/PFC shall not require SJVN to justify the invocation of the POI against the SPV/SPD, to make any claim against or any demand against the SPV/SPD or to give any notice to the SPV/SPD;
- (g) The POI shall be the primary obligation of IREDA/REC/PFC and SJVN shall not be obliged before enforcing the POI to take any action in any court or arbitral proceedings against the SPV/SPD;
- (h) Neither SJVN is required to justify the invocation of this POI nor shall IREDA/REC/PFC have any recourse against SJVN in respect of the payment made under letter of undertaking.
- 5) Notwithstanding anything contrary contained anywhere in this POI or in any other documents, this POI is and shall remain valid up to and IREDA/REC/PFC shall make payment thereunder only if a written demand or request is raised within the said date and to the maximum extent of Rs...... and IREDA/REC/PFC shall in no case, be liable for any interest, costs, charges and expenses and IREDA's/REC's/PFC's liability in no case will exceed more than the above amount stipulated.

Thanking you Yours faithfully For and on behalf of

M/*s*

(name of the POI issuing Agency)

Copy to:-

M/s.....

.....As per their request

FORMAT 7.3 C

FORMAT FOR PERFORMANCE BANK GUARANTEE (PBG)

(To be submitted Separately for each Project)

(To be stamped in accordance with Stamp Act, the Non-Judicial Stamp Paper of Appropriate Value)

Reference:
Bank Guarantee No.:
Date:

of the selected Solar Power Developer/Project Company]

This guarantee shall be valid and binding on this Bank up to and including... and shall not be terminable by notice or any change in the constitution of the Bank or the term of contractor by any other reasons whatsoever and our liability hereunder shall not be impaired or discharged by any extension of time or variations or alternations made, given, or agreed with or without our knowledge or consent, by or between parties to the respective agreement.

Our liability under this Guarantee is restricted to INR (Indian Rupees Only). Our Guarantee shall remain in force until Client organization/SJVN shall be entitled to invoke this

Guarantee till

The Guarantor Bank hereby agrees and acknowledges that Client organization/SJVN shall have a right to invoke this BANK GUARANTEE in part or in full, as it may deem fit.

The Guarantor Bank hereby expressly agrees that it shall not require any proof in addition to the written demand by Client organization/SJVN, made in any format, raised at the above-mentioned address of the Guarantor Bank, in order to make the said payment to Client organization/SJVN.

The Guarantor Bank shall make payment hereunder on first demand without restriction or conditions and notwithstanding any objection by [Insert name of the selected SOLAR Power Developer/ Project Company as applicable] and/ or any other person. The Guarantor Bank shall not require Client organization/SJVN to justify the invocation of this BANK GUARANTEE, nor shall the Guarantor Bank have any recourse against Client organization/SJVN in respect of any payment made hereunder

This BANK GUARANTEE shall be interpreted in accordance with the laws of India and the courts at New Delhi shall have exclusive jurisdiction

The Guarantor Bank represents that this BANK GUARANTEE has been established in such form and with such content that it is fully enforceable in accordance with its terms as against the Guarantor Bank in the manner provided herein.

This BANK GUARANTEE shall not be affected in any manner by reason of merger, amalgamation, restructuring or any other change in the constitution of the Guarantor Bank.

This BANK GUARANTEE shall be a primary obligation of the Guarantor Bank and accordingly Client organization/SJVN shall not be obliged before enforcing this BANK GUARANTEE to take any action in any court or arbitral proceedings against the selected SOLAR Power Developer/ Project Company, to make any claim against or any demand on the selected SOLAR Power Developer/ Project Company or to give any notice to the selected SOLAR Power Developer/ Project Company or to enforce any security held by Client organization/SJVN or to exercise, levy or enforce any distress, diligence or other process against the selected SOLAR Power Developer/ Project Company, diligence or other process against the selected SOLAR Power Developer/ Project Company, diligence or other process against the selected SOLAR Power Developer/ Project Company, diligence or other process against the selected Solar Power Developer/ Project Company.

This BANK GUARANTEE shall be effective only when the Bank Guarantee issuance message is transmitted by the issuing Bank through SFMS to State Bank of India, CAG Branch, 5th Floor, Parswanath Capital Tower, Bhai Veer Singh Marg, Gol Market, New Delhi-110001 IFSC code: SBIN0017313, Client Name: SJVN Ltd.

The Guarantor Bank acknowledges that this BANK GUARANTEE is not personal to Client organisation and may be assigned, in whole or in part, (whether absolutely or by way of security) by Client organization/SJVN to any entity to whom Client organization/SJVN is entitled to assign its rights and obligations under the PPA.

Notwithstanding anything contained hereinabove, our liability under this Guarantee is restricted to INR

Signature:
Name:
Power of Attorney No.:
For
Contact Details of the Bank
E-mail ID of the Bank:
Banker's Stamp and Full Address. Dated this day of, 20
Witness:
1.
Signature
Name and Address

2.....Signature Name and Address

Notes:

- 1. The Stamp Paper should be in the name of the Executing Bank and of appropriate value.
- 2. The Performance Bank Guarantee shall be executed by any of the Scheduled Commercial Banks as listed on the website of Reserve Bank of India (RBI) and amended as on the date of issuance of Bank Guarantee. Bank Guarantee issued by foreign branch of a Scheduled Commercial Bank is to be endorsed by the Indian branch of the same bank or State Bank of India (SBI).

FORMAT 7.3 D

FORMAT OF PAYMENT ON ORDER INSTRUMENT TO BE ISSUED BY IREDA/REC/PFC (IN LIEU OF PBG)

No.

Date: Registered

To, SJVN Limited 6th Floor, Tower-1, NBCC Office Complex, East Kidwai Nagar, New Delhi – 110023

Reg: M/s..... (insert name of the PPA signing entity) (Project No...... (insert project ID issued by SJVN) – Issuance of Payment on Order Instrument for an amount of Rs.....

Dear Sir,

- 1. It is to be noted that M/s (insert name of the POI issuing Agency) ('IREDA/REC /PFC') has sanctioned a non-fund-based limit loan of Rs...... (Rupees only) to M/s..... under the Loan Agreement executed on to execute Solar Energy Projects.
- 3. In consideration of the ____ [Insert name of the Bidder] (hereinafter referred to as selected Solar Power Developer') submitting the response to RfS inter alia for selection of Contracted Capacity of kW, at......[Insert name of the place] under RfS for(insert name of the RfS), for supply of power there from on long term basis, in response to the RfS dated..... issued by SJVN Ltd (hereinafter referred to as SJVN) and SJVN considering such response to the shall unless repugnant to the context or meaning thereof include its executers, administrators, successors and assignees) and selecting the Solar Power Project of the Solar Power Developer (SPD) and issuing Letter of Award No to (Insert Name of selected RE Power Developer) as per terms of RfS and the same having been accepted by the selected SPD resulting in a Power Purchase Agreement (PPA) to be entered into, for purchase of Power [from selected Solar Power Developer or a Project Company, M/s {a Special Purpose Vehicle (SPV) formed & address of IREDA/PFC/REC] hereby agrees unequivocally, irrevocably and name unconditionally to pay to SJVN/client organization at [Insert Name of the Place from the address of the SJVN] forthwith on demand in writing from SJVN/client organization or any Officer Value] only, on behalf of M/s [Insert name of the selected Solar Power Developer / Project Company].
- 2. In consideration of the above facts, IREDA/REC/PFC, having its registered office at , agrees to make payment for the sum of Rs. lakhs (in words.....) to SJVN/client organization

on the following conditions:-

(a) IREDA/REC/PFC agrees to make payment of the above said amount unconditionally, without

demur and without protest within a period of <u>days</u> of receipt of request from SJVN within the validity period of this letter as specified herein;

- (b) The commitment of IREDA/REC/PFC, under this Payment of Order Instrument will have the same effect as that of the commitment under the Bank Guarantee issued by any Public Sector Bank and shall be enforceable in the same manner as in the case of a Bank Guarantee issued by a Bank and the same shall be irrevocable and shall be honoured irrespective of any agreement or its breach between IREDA/REC/PFC or its constituents notwithstanding any dispute that may be raised by the against SJVN;
- (c) The liability of IREDA/REC/PFC continues to be valid and binding on IREDA/REC/PFC and shall not be terminated, impaired and discharged, by virtue of change in its constitution and specific liability under letter of undertaking shall be binding on its successors or assignors;
- (d) The liability of IREDA/REC/PFC shall continue to be valid and binding on IREDA/REC/PFC and shall not be terminated/ impaired/ discharged by any extension of time or variation and alternation made given or agreed with or without knowledge or consent of the parties (SJVN and Bidding Party), subject to the however to the maximum extent of amount stated herein and IREDA/REC/PFC is not liable to any interest or costs etc.;
- (e) This Payment of Order Instrument can be invoked either partially or fully, till the date of validity;
- (f) IREDA/REC/PFC agrees that it shall not require any proof in addition to the written demand by SJVN/client organisation made in any format within the validity period. IREDA/REC/PFC shall not require SJVN/client organisation to justify the invocation of the POI against the SPV/SPD, to make any claim against or any demand against the SPV/SPD or to give any notice to the SPV/SPD;
- (g) The POI shall be the primary obligation of IREDA/REC/PFC and SJVN/client organization shall not be obliged before enforcing the POI to take any action in any court or arbitral proceedings against the SPV/SPD;
- (h) Neither SJVN/client organisation is required to justify the invocation of this POI nor shall IREDA/REC/PFC have any recourse against SJVN/client organisation in respect of the payment made under letter of undertaking.

Notwithstanding anything contrary contained anywhere in this POI or in any other documents, this POI is and shall remain valid upto.....and IREDA /REC/ PFC shall make payment thereunder only if a written demand or request is raised within the said date and to the maximum extent of Rs..... and IREDA/REC/PFC shall in no case, be liable for any interest, costs, charges and expenses and IREDA's/REC's/PFC's liability in no case will exceed more than the above amount stipulated.

Thanking you Yours faithfully For and on behalf of

M/s.....(Name of the POI issuing agency)

Copy to:-

M/s..... PP.....

.....As per their request

RFS for SRPD for Design, Supply, Installation, Testing and Commissioning including Warranty, Comprehensive O&M for cumulative capacity of 18 MW Grid Connected RTS Projects (without battery storage) on Union Government Buildings under PM Surya Ghar: Muft Bijli Yojana. (RFS No.: SJVN/RTS/2024-25/Rooftop Solar-5, TSC No. SJVN-2024-TN000015)

Page 73 of 137

Format 7.4

FORMAT FOR BOARD RESOLUTIONS

The Board, after discussion, at the duly convened Meeting on [*Insert date*], with the consent of all the Directors present and in compliance of the provisions of the Companies Act,1956 or Companies Act 2013, as applicable, passed the following Resolution:

[Note: In the event the Bidder is a Bidding Consortium, addition to above resolution at Sl. No. 1, the following resolutions are to be provided]

FURTHER RESOLVED THAT pursuant to the provisions of the Companies Act, 1956 or Companies Act, 2013, as applicable and compliance thereof and as permitted under the Memorandum and Articles of Association of the Company, approval of the Board be and is hereby accorded to invest (.....%) equity [*Insert the % equity commitment as specified in Consortium Agreement*] in the Project. (To be provided by each Member of the Bidding Consortium including Lead Member such that total equity is 100%)

FURTHER RESOLVED THAT approval of the Board be and is hereby accorded to participate in consortium with M/s......[*Insert the name of other Members in the Consortium*] and Mr/ Ms....., be and is hereby authorized to execute the Consortium Agreement. (*To be provided by each Member of the Bidding Consortium including Lead Member*)

And

FURTHER RESOLVED THAT approval of the Board be and is hereby accorded to contribute such additional amount over and above the percentage limit (specified for the Lead Member in the Consortium Agreement) to the extent becoming necessary towards the total equity share in the Project Company, obligatory on the part of the Consortium pursuant to the terms and conditions contained in the Consortium Agreement dated...... executed by the Consortium as per the provisions of the RFS. *[To be passed by the Lead Member of the Bidding Consortium]*

Certified True Copy

•••••

RFS for SRPD for Design, Supply, Installation, Testing and Commissioning including Warranty, Comprehensive O&M for cumulative capacity of 18 MW Grid Connected RTS Projects (without battery storage) on Union Government Buildings under PM Surya Ghar: Muft Bijli Yojana. (RFS No.: SJVN/RTS/2024-25/Rooftop Solar-5, TSC No. SJVN-2024-TN000015)

Page 74 of 137

Notes:

- 1) This certified true copy should be submitted on the letterhead of the Company, signed by the Company Secretary/ Director.
- 2) The contents of the format may be suitably re-worded indicating the identity of the entity passing the resolution.
- 3) This format may be modified only to the limited extent required to comply with the local regulations and laws applicable to a foreign entity submitting this resolution. For example, reference to Companies Act, 1956 or Companies Act, 2013 as applicable may be suitably modified to refer to the law applicable to the entity submitting the resolution. However, in such case, the foreign entity shall submit an unqualified opinion issued by the legal counsel of such foreign entity, stating that the Board resolutions are in compliance with the applicable laws of the respective jurisdictions of the issuing Company and the authorizations granted therein are true and valid.

Format 7.5

FORMAT FOR CONSORTIUM AGREEMENT

(*To be stamped in accordance with Stamp Act, the Non-Judicial Stamp Paper of Appropriate Value*)

THIS Consortium Agreement ("Agreement") executed on this.... Day of...... Two thousand...... between M/s......[*Insert name of Lead Member*] a Company in corporated under the laws of

and having its Registered Office at..... (here in after called the "Member-1", which expression shall include its successors, executors and permitted assigns) and M/s..... a Company incorporated under the laws of and having its Registered Office at..... here in after called the"Member-2", which expression shall include its successors, executors and permitted assigns), M/s.....a Company/LLP firm incorporated under the laws of and having its Registered Office at..... (here in after called the "Member-n", which expression shall include its successors, executors and permitted assigns), [The Bidding Consortium should list the details of all the Consortium Members] for the purpose of submitting response to RFS and execution of Power Purchase Agreement (in case of award), against RFS No..... dated.....issued by SJVN Limited (SJVN) a Company incorporated under the Companies Act, 2013, and having its Registered Office at 6th Floor, Tower-1, NBCC Office Complex, East Kidwai Nagar, New Delhi - 110023.

WHEREAS, each Member individually shall be referred to as the "Member" and all of the Members shall be collectively referred to as the "Members" in this Agreement.

WHEREAS, SJVN had invited response to RfS vide its Request for Selection (RfS) dated.....

WHEREAS the RfS stipulates that in case response to RfS is being submitted by a Bidding Consortium, the Members of the Consortium will have to submit a legally enforceable Consortium Agreement in a format specified by SJVN wherein the Consortium Members have to commit equity investment of a specific percentage for the Project.

NOW THEREFORE, THIS AGREEMENT WITNESSTH AS UNDER:

In consideration of the above premises and agreements all the Members in this Bidding Consortium do hereby mutually agree as follows:

- 1. We, the Members of the Consortium and Members to the Agreement do hereby unequivocally agree that Member-1 (M/s.....), shall act as the Lead Member as defined in the RfS for self and agent for and on behalf of Member-2, Member-n and to submit the response to the RfS.
- 2. The Lead Member is hereby authorized by the Members of the Consortium and Members to the

Agreement to bind the Consortium and receive instructions for and on their behalf.

- 3. Notwithstanding anything contrary contained in this Agreement, the Lead Member shall always be liable for the equity investment obligations of all the Consortium Members i.e. for both its own liability as well as the liability of other Members.
- 4. The Lead Member shall be liable and responsible for ensuring the individual and collective commitment of each of the Members of the Consortium in discharging all of their respective equity obligations. Each Member further undertakes to be individually liable for the performance of its part of the obligations without in any way limiting the scope of collective liability envisaged in this Agreement.
- 5. Subject to the terms of this Agreement, the share of each Member of the Consortium in the issued equity share capital of the Project Company is/shall be in the following proportion

Name	Percentage
Member 1	
Member 2	
Member 3	
Total	100%

We acknowledge that after the execution of PPA, the controlling shareholding (having not less than 51% of the voting rights and paid-up share capital) in the Project Company developing the Project shall be maintained for a period of 01 (one) year after Scheduled Commissioning Date (SCD).

- 6. The Lead Member, on behalf of the Consortium, shall inter alia undertake full responsibility for liaising with Lenders or through internal accruals and mobilizing debt resources for the Project, and ensuring that the Seller achieves Financial Closure in terms of the PPA.
- 7. In case of any breach of any equity investment commitment by any of the Consortium Members, the Lead Member shall be liable for the consequences thereof.
- 8. Except as specified in the Agreement, it is agreed that sharing of responsibilities as aforesaid and equity investment obligations thereto shall not in any way be a limitation of responsibility of the Lead Member under these presents.
- 9. It is further specifically agreed that the financial liability for equity contribution of the Lead Member shall not be limited in any way so as to restrict or limit its liabilities. The Lead Member shall be liable irrespective of its scope of work or financial commitment.
- 10. This Agreement shall be construed and interpreted in accordance with the Laws of India and courts at New Delhi alone shall have the exclusive jurisdiction in all matters relating thereto and arising thereunder.
- 11. It is hereby further agreed that in case of being selected as the Successful Bidder, the Members do hereby agree that they shall furnish the Performance Guarantee in favour of Client Organisation/SJVN in terms of the RfS.
- 12. It is further expressly agreed that the Agreement shall be irrevocable and shall form an integral

part of the Power Purchase Agreement (PPA) and shall remain valid until the expiration or early termination of the PPA in terms thereof, unless expressly agreed to the contrary by SJVN/ Client Organisation.

- 13. The Lead Member is authorized and shall be fully responsible for the accuracy and veracity of the representations and information submitted by the Members respectively from time to time in the response to RfS.
- 14. It is hereby expressly understood between the Members that no Member at any given point of time, may assign or delegate its rights, duties or obligations under the PPA except with prior written consent of SJVN/ Client Organisation.
- 15. This Agreement
 - a) has been duly executed and delivered on behalf of each Member hereto and constitutes the legal, valid, binding and enforceable obligation of each such Member;
 - b) sets forth the entire understanding of the Members hereto with respect to the subject matter hereof; and
 - c) may not be amended or modified except in writing signed by each of the Members and with prior written consent of SJVN.
- 16. All the terms used in capitals in this Agreement but not defined herein shall have the meaning as per the RfS and PPA.

IN WITNESS WHEREOF, the Members have, through their authorized representatives, executed these present on the Day, Month and Year first mentioned above

For M/s [Member 1]

.....

(Signature, Name & Designation of the person authorized vide Board Resolution Dated)

Witnesses:

Signature	Signature
Name	Name
Address:	Address:

For M/s [Member n]

.....

(Signature, Name & Designation of the person authorized vide Board Resolution dated.....)

Witnesses:

Signature	Signature
Name	Name
Address:	Address:

Signature and stamp of Notary of the place of execution

FORMAT 7.6

FORMAT FOR FINANCIAL REQUIREMENT

(This should be submitted on the Letter Head of the Bidding Company/Lead Member of Consortium)

Ref. No	
Date:	
From	(Insert name and address of Bidding Company/ Lead Member of Consortium)

Tel.#:
Fax#:
E-mail address#

То

6th Floor, Tower-1, NBCC Office Complex, East Kidwai Nagar, New Delhi - 110 023
Sub: Response to RfS No dated for

Dear Sir/ Madam,

SJVN Limited

We certify that the Bidding Company/Member in a Bidding Consortium is meeting the financial eligibility requirements as per the provisions of the RfS. Accordingly, the Bidder, with the support of its Affiliates, (strike out if not applicable) is fulfilling the minimum Net Worth criteria, by demonstrating a Net Worth of Rs..... Cr. (in words) as on the last date of Financial Year 2023-24 or as on the date at least 7 days prior to the bid submission deadline (Strike out wherever not applicable).

This Net Worth has been calculated in accordance with instructions provided in Clause 4.4.1 of the RfS.

Exhibit (i): Applicable in case of Bidding Company

For the above calculations, we have considered the **Net Worth** by Bidding Company and/ or its Affiliate(s) as per following details:

Name of Bidding Company	Name of Affiliate(s) whose net worth is to be considered	Relationship with Bidding Company*	Net Worth (in Rs. Crore)
Company 1			
	Total		

The column for "Relationship with Bidding Company" is to be filled only in case the financial capability of Affiliate has been used for meeting Qualification Requirements. Further, documentary evidence to establish the relationship, duly certified by a practicing company secretary/ chartered accountant is required to be attached with the format.

For the above calculations, we have considered Net Worth by Member in Bidding Consortium and/ or its Affiliate(s) per following details:

Name of Consortium Member Company	Name of Affiliate(s) whose net worth is to be considered	Relationship with Bidding Company* (If any)	Net Worth (in Rs. Crore)	Equity Commitment (in %age) in Bidding Consortium	Committed Net Worth (in Rs. Crore)
Company 1					
	Total				

* The column for "Relationship with Bidding Company" is to be filled only in case the financial capability of Affiliate has been used for meeting Qualification Requirements. Further, documentary evidence to establish the relationship, duly certified by a practicing company secretary/chartered accountant is required to be attached with the format.

Further, we certify that the Bidding Company/ Member in the Bidding Consortium, with the support of its Affiliates, (strike out if not applicable) is fulfilling the minimum Annual Turnover Criteria, by demonstrating an Annual Turnover of INR..... (..... in words) as on the end of Financial Year 2023-24

Exhibit (i): Applicable in case of Bidding Company

For the above calculations, we have considered the Annual Turnover by Bidding Company and/ or its Affiliate(s) as per following details:

Name of Bidding Company	Name of Affiliate(s) whose Annual Turnover is to be considered	Relationship with Bidding Company*	Annual Turnover (In Rs. Crore)
Company 1			
Total			

*The column for "Relationship with Bidding Company" is to be filled only in case the financial capability of Affiliate has been used for meeting Qualification Requirements. Further, documentary evidence to establish the relationship, duly certified by a practicing company secretary/chartered accountant is required to be attached with the format.

Exhibit (ii): Applicable in case of Bidding Consortium (To be filled by each Member in a Bidding Consortium separately) Name of Member: [Insert name of the Member]

Annual Turnover Requirement to be met by Member in Proportion to the Equity Commitment: INR..... Crore (Equity Commitment (%) * Rs.....Crore)

For the above calculations, we have considered Annual Turnover by Member in Bidding Consortium and/ or its Affiliate(s) as per following details:

Name of Consortium Member Company	Name of Affiliate(s) whose Annual Turnover is to be considered	Relationship with Bidding Company* (If Any)	Annual Turnover (in Rs. Crore)	Equity Commitment (in %age) in Bidding Consortium	Proportionate Annual Turnover (in Rs. Crore)
Company 1					
	Total				

* The column for "Relationship with Bidding Company" is to be filled only in case the financial capability of Affiliate has been used for meeting Qualification Requirements. Further, documentary evidence to establish the relationship, duly certified by a practicing company secretary/chartered accountant is required to be attached with the format.

Further, we certify that the Bidding Company/ Member in the Bidding Consortium, with the support of its Affiliates, (strike out if not applicable) is fulfilling the minimum Working Capital Criteria by demonstrating a Working Capital of INR ______ (in words) as on the end of Financial Year 2023-24.

Exhibit (i): Applicable in case of Bidding Company

For the above calculations, we have considered the WORKING CAPITAL by Bidding Company and/ or its Affiliate(s) as per following details:

Name of Bidding Company	Name of Affiliate(s) whose Working Capital is to be considered	Relationship with Bidding Company*	Working Capital (in Rs. Crore)
Company 1			
Total			

* The column for "Relationship with Bidding Company" is to be filled only in case the financial capability of Affiliate has been used for meeting Qualification Requirements. Further, documentary evidence to establish the relationship, duly certified by a practicing company secretary/chartered accountant is required to be attached with the format.

Exhibit (ii): Applicable in case of Bidding Consortium

(To be filled by each Member in a Bidding Consortium separately) Name of Member:[Insert name of the Member]

Working capital Requirement to be met by Member in Proportion to the Equity Commitment: INR.....Crore (Equity Commitment (%) * Rs....Crore)

For the above calculations, we have considered Working Capital by Member in Bidding Consortium and/ or its Affiliate(s) as per following details:

Name of Consortium Member Company	Name of Affiliate(s) whose Working Capital is to be considered	Relationship with Bidding Company* (If Any)	Working Capital (in Rs. Crore)	Equity Commitment (in %age) in Bidding Consortium	Proportionate Working Capital (in Rs. Crore)
Company 1					
	Total	•			

* The column for "Relationship with Bidding Company" is to be filled only in case the financial capability of Affiliate has been used for meeting Qualification Requirements. Further, documentary evidence to establish the relationship, duly certified by a practicing company secretary/chartered accountant is required to be attached with the format

(Signature & Name of the Authorized Signatory)

Date:

(Signature and Stamp of CA)

Membership No.

Regn. No. of the CA's Firm:

Note:

- a. Along with the above format, in a separate sheet on the letterhead of the Chartered Accountant's Firm, provide details of computation of Net Worth and Annual Turnover duly certified by the Chartered Accountant.
- b. Certified copies of Balance sheet, Profit & Loss Account, Schedules and Cash Flow Statements are to be enclosed in complete form along with all the Notes to Accounts.
- c. <u>In case of the Bidder choosing to meet the Working Capital criteria through an In-principle</u> sanction letter, such document shall be separately submitted by the bidder as part of the bidder's <u>Response to RfS.</u>

Format 7.7

UNDERTAKING

(To be submitted on the letterhead of the Bidder)

We, hereby provide this undertaking to SJVN Limited, in respect to our response to RFS vide RFS No......dated....., that M/s (insert name of the Bidder), or any of its Affiliates is not a wilful defaulter to any lender, and that there is no major litigation pending or threatened against M/s..... (insert name of the Bidder) or any of its Affiliates which are of a nature that could cast a doubt on the ability or the suitability of the Bidder to undertake the Project.

(Name and Signature of the Authorized Signatory)

FORMAT 7.8

FORMAT FOR DISCLOSURE

(To be submitted on the Letter Head of the Bidding Company/ Each Member of Consortium)

DISCLOSURE

 Ref. No.
 Date:

From (Insert name and address of Bidding Company/ Lead Member of Consortium)

.....

Tel.#: Fax#: E-mail address#

То

SJVN Limited 6th Floor, Tower-1, NBCC Office Complex, East Kidwai Nagar, New Delhi - 110 023

Sub: Response to RFS No......dated...... for

Dear Sir/ Madam,

We hereby declare and confirm that only we are participating in the RFS Selection process for the RFS No......dated.....and that our Parent, Affiliate or Ultimate Parent or any Group Company with which we have direct or indirect relationship are not separately participating in this selection process.

We further declare and confirm that in terms of the definitions of the RFS, M/s.....(enter name of the Promoter/Promoters) is/are our Promoter(s), and has/have a direct/indirect Control in the bidding company as per the Companies Act 2013. No other entity has a direct/indirect control in the bidding company except the entity(ies) mentioned above.

We further declare that the above statement is true & correct. We undertake that if at any stage it is found to be incorrect, in addition to actions applicable under the RFS including but not limited to cancellation of our response to this RFS and LoA/LOE as applicable, we, i.e. M/s......(enter name of the bidding company/member in a consortium), including our Parent, Ultimate Parent, and our Affiliates shall be suspended/debarred from participating in any of the upcoming tenders issued by SJVN for a period of 2 years from the date of default as notified by SJVN.

We also understand that the above is in addition to the penal consequences that may follow from the relevant laws for the time being in force.

We further declare that we have read the provisions of Clause 4.1.7 of the RfS, and are complying with the requirements as per the referred OM dated 23.02.2023 except Sl.17 of the OM, including subsequent amendments and clarifications thereto. Accordingly, we are also enclosing necessary certificates (Annexure to this format) in support of the above compliance under the RfS. We understand that in case of us being selected under this RfS, any of the above certificates is found false, SJVN shall take appropriate action as deemed necessary.

We further declare that we are fully aware of the of the Approved Models and Manufactures of Solar PV modules (Requirement of Compulsory Registration) Order,2019' issued by MNRE on 02.01.2019 and various clarifications/amendments thereto issued time to time along with the procedural guidelines dated 28.03.2019 including clarifications/amendments thereto, issued under the subject order and the Lists(s) thereunder.

We further understand that the List-I (Solar PV Modules) of ALMM Order, Annexure-I of the OM, issued by MNRE on 10th March, 2021 will be updated by MNRE from time to time. We also understand that the Modules to be procured for this project, shall be from the List-I (for Solar PV modules) and List-II (for Solar PV Cell) of the ALMM MNRE Order applicable on the date of invoicing of such modules.

We also further understand and accept that we shall be liable for penal action, including but not limited to blacklisting and invocation of Performance Bank Guarantee, if we are found not complying with the provisions of ALMM Order issued by MNRE, GoI, including those mentioned above. Thanking you,

We remain, Yours faithfully,

Name, Designation, Seal and Signature of Authorized Person in whose name Power of Attorney/ Board Resolution/ Declaration

FORMAT 7.8 A

FORMAT FOR DISCLOSURE

(To be submitted on the Letter Head of the Bidding Company/ Each Member of Consortium)

(To be submitted by all such bidders in which a common Company/companies directly/indirectly own(s) more than 10% but less than 26% shareholding)

DISCLOSURE

Ref.No.....

Date:....

From (Insert name and address of Bidding Company/ Lead Member of Consortium)
.....
Tel.#:
Fax#:
E-mail address#

То

SJVN Limited 6th Floor, Plate-B, NBCC Office Block Tower-1, East Kidwai Nagar, New Delhi - 110 023

Sub: Response to RFS No.....datedfor.....

Dear Sir/ Madam,

We hereby declare and confirm that in terms of the definitions of the RFS, M/s.....(enter name of the common shareholder) is our Group Company, and has a direct/indirect shareholding of less than 26% in the bidding company. M/s... (enter name of the common shareholder) also holds directly/indirectly less than 26% shareholding in other Companies which may participate in this RFS, i.e. RFS No

We undertake that M/s..... (enter name of the above common shareholder) is not a party to the decision-making process for submission of response to this RFS by M/s..... (enter name of the bidding company/member in the consortium). We further undertake that while undertaking any action as part of our response to RFS, we are not complicit with other such bidders participating in this RFS, in which M/s..... (enter name of the common shareholder) has less than 26% direct/indirect shareholding, if any.

We further declare and confirm that in terms of the definitions of the RFS, M/s...... (enter name of the Promoter/Promoters) is/are our Promoter(s), and has/have a direct/indirect Control in the bidding company as per the Companies Act 2013. No other entity has a direct/indirect control in the bidding company except the entity (ies) mentioned above

We further declare that the above statement is true & correct. We undertake that if at any stage it is found to be incorrect, in addition to actions applicable under the RFS including but not limited to cancellation of our response to this RFS and LoE/LOA as applicable, we, i.e. M/s (enter name of the bidding company/member in a consortium), including our Parent, Ultimate Parent, and our Affiliates shall be suspended/debarred from participating in any of the upcoming tenders issued by SJVN for a period of 2 years from the date of default as notified by SJVN

We also understand that the above is in addition to the penal consequences that may follow from the relevant laws for the time being in force.

We further declare that we have read the provisions of Clause 4.1.7 of the RFS, and are complying with the requirements as per the referred OM dated 23.02.2023 except Sl. 17 of the OM, including subsequent amendments and clarifications thereto. Accordingly, we are also enclosing necessary certificates (Annexure to this format) in support of the above compliance under the RFS. We understand that in case of us being selected under this RFS, any of the above certificates is found false, SJVN shall take appropriate action as deemed necessary.

We further understand that the List-I (Solar PV Modules) of ALMM Order, Annexure-I of the OM, issued by MNRE on 10th March, 2021 will be updated by MNRE from time to time. We also understand that the Modules to be procured for this project, shall be from the List-I (for Solar PV modules) and List-II (for Solar PV Cell) of the ALMM MNRE Order applicable on the date of invoicing of such modules.

We also further understand and accept that we shall be liable for penal action, including but not limited to blacklisting and invocation of Performance Bank Guarantee, if we are found not complying with the provisions of ALMM Order issued by MNRE, GoI, including those mentioned above.

Dated the....., 20......

Thanking you,

We remain,

Yours faithfully,

Name, Designation, Seal and Signature of Authorized Person in whose name Power of Attorney/ Board Resolution/ Declaration.

ANNEXURE TO FORMAT 7.8/7.8A

DECLARATION

RESTRICTION ON PROCUREMENT FROM CERTAIN COUNTRIES: MoF OM No 7/10/2021-PPD(1) dated 23.02.2023

(To be submitted on the Letter Head of the Bidding Company/ Each Member of Consortium)

..... Dear Sir/ Madam,

This is with reference to attached order No. OM no. 7/10/2021-PPD(1) dated 23.02.2023 issued by Department of Expenditure, MoF, Govt of India.

We are hereby submitting the following declaration in this regard:

"I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I certify that this bidder is not from such a country or, if from such a country, has been registered with the Competent Authority. I hereby certify that this bidder fulfils all requirements in this regard and is eligible to be considered. Where applicable, evidence of valid registration by the Competent Authority shall be attached]."

We further declare that the above statement is true & correct. We are aware that if at any stage it is found to be incorrect, our response to the tender will be rejected.

Dated the......day of, 20......

Encl: OM dated 23.02.2023, as referred above Name, Designation, Seal and Signature of Authorized Signatory

Format 7.9

PRE-CONTRACT INTEGRITY PACT

Between

SJVN Limited, a company incorporated under the relevant law in the matter and having its registered office at SHAKTI SADAN, SHANAN, P.O. SANJAULI, SHIMLA, HP-171006, hereinafter referred to as "The Employer" which expression shall mean and include, unless the context otherwise requires, his successors in office and assigns of the First Part.

And M/s ______, a company/ firm/ individual (status of the company) constituted in accordance with the relevant law in the matter and having its registered office _______at

represented by Shri _____, hereinafter referred to as "The Bidder/Contractor" which expression shall mean and include, unless the context otherwise requires, his successors and permitted assigns of the Second Part.

NOW, THEREFORE,

To avoid all forms of corruption by following a system that is fair, transparent and free from any influence/prejudiced dealings prior to, during and subsequent to the currency of the contract to be entered into with a view to:-

Enabling the Employer to obtain the desired said (work/ goods/ services) at a competitive price in conformity with the defined specifications by avoiding the high cost and the distortionary impact of corruption on public procurement, and

Enabling the Bidder(s)/Contractor(s) to abstain from bribing or indulging in any corrupt practice in order to secure the contract by providing assurance to them that their competitors will also abstain from bribing and other corrupt practices and the Employer will commit to prevent corruption, in any form, by its officials by following transparent procedures.

1.0 <u>Commitments of the Employer</u>

1.1 The Employer undertakes that no official of the Employer, connected directly or indirectly with the contract, will demand, take a promise for or accept, directly or through intermediaries, any bribe, consideration, gift, reward, favour or any material or immaterial benefit or any other advantage from the Bidder/Contractor, either for themselves or for any person, organization or third party related to the contract in exchange for an advantage in the bidding process, bid evaluation, contracting or implementation process related to the contact.

- 1.2 The Employer will, during the pre-contract stage, treat all the Bidders/Contractors alike, and will provide to all the Bidders/Contractors the same information and will not provide any such information to any particular Bidder/Contractor which could afford an advantage to that particular Bidder/Contractor in comparison to other Bidders/Contractors.
- 1.3 All the officials of the Employer will report to the appropriate Authority any attempted or completed breaches of the above commitments as well as any substantial suspicion of such a breach.
- 1.4 In case any such preceding misconduct on the part of such official(s) is reported by the Bidder to the Employer with full and verifiable facts and the same is prima facie found to be correct by the Employer, necessary disciplinary proceedings, or any other action as deemed fit, including criminal proceedings may be initiated by the Employer or Independent External Monitor and such a person shall be debarred from further dealings related to the contract process. In such a case while an enquiry is being conducted by the Employer the proceedings under the contract would not be stalled.

2.0 <u>Commitments of the Bidder(s)/Contractor(s)</u>

The Bidder(s)/Contractor(s) commits itself to take all measures necessary to prevent corrupt practices, unfair means and illegal activities during any stage of its bid or during any precontract or post-contract stage in order to secure the contract or in furtherance to secure it and in particular commit itself to the following :-

- 2.1 The Bidder(s)/Contractor(s) will not offer, directly or through intermediaries, any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the Employer, connected directly or indirectly with the bidding process, or to any person, organization or third party related to the contract in exchange for any advantage in the bidding, evaluation, contracting and implementation of the contract.
- 2.2 The Bidder/Contractor further undertakes that it has not given, offered or promised to give, directly or indirectly any bribe, gift consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the Employer or otherwise in procuring the Contract or forbearing to do or having done any act in relation to the obtaining or execution of the contract or any other contract with Employer for showing or forbearing to show favour or disfavour to any person in relation to the contract or any other contract with Employer.
- 2.3 The Bidder(s)/Contractor(s) shall disclose the name and address of agents and representatives and Indian Bidder(s)/Contractor(s) shall disclose their foreign principals or associates.
- 2.4 The Bidder(s)/Contractor(s) shall disclose the payments to be made by them to agents/brokers or any other intermediary, in connection with this bid/contract
- 2.5 The Bidder, either while presenting the bid or during pre-contract negotiations or before signing the contract, shall disclose any payments he has made, is committed to or intends to make to officials of the Employer or their family members, agents, brokers or any other intermediaries in connection with the contract and the details of services agreed upon for such payments.
- 2.6 The Bidder/Contractor will not collude with other parties interested in the contract to impair the transparency, fairness and progress of the bidding process, bid evaluation, contracting and

implementation of the contract.

- 2.7 The Bidder/Contractor will not accept any advantage in exchange for any corrupt practice, unfair means and illegal activities.
- 2.8 The Bidder/Contractor shall not use improperly, for purposes of competition or personal gain, or pass on to others, any information provided by the Employer as part of the business relationship, regarding plans, technical proposals and business details, including information contained in electronic data carrier. The Bidder/Contractor also undertakes to exercise due and adequate care lest any such information is divulged.
- 2.9 The Bidder(s)/Contractor(s) commits to refrain from giving any complaint directly or through any other manner without supporting it with full and verifiable facts.
- 2.10 The Bidder(s)/Contractor(s) shall not instigate or cause to instigate any third person to commit any of the actions mentioned above.
- 2.11 If the Bidder/Contractor or any employee of the Bidder/Contractor or any person acting on behalf of the Bidder/Contractor, either directly or indirectly, is a relative of any of the officers of the Employer, or alternatively, if any relative of an officer of the Employer has financial interest/stake in the Bidder(s)/Contractor(s) firm(excluding Public Ltd. Company listed on Stock Exchange), the same shall be disclosed by the Bidder/Contractor at the time of filling of tender.

The term 'relative' for this purpose would be as defined in Section 2(77) of the Companies Act 2013.

- 2.12 The Bidder(s)/Contractor(s) shall not lend to or borrow any money from or enter into any monetary dealings or transactions, directly or indirectly, with any employee of the Employer.
- 2.13. The Bidder/supplier shall follow all rules and regulations of India including statutory requirements like minimum wages, ESIC and EPF.

3.0 Previous Transgression

- 3.1 Bidders to disclose any transgressions with any other company that may impinge on the anticorruption principle. The date of such transgression, for the purpose of disclosure by the bidders in this regard, would be the date on which cognizance of the said transgression was taken by the competent authority. The period for which such transgression(s) is/are to be reported by the bidders shall be the last **three years** to be reckoned from date of bid submission. The transgression(s), for which cognizance was taken before the said period of three years, but are pending conclusion, shall also be reported by the bidders.
- 3.2 The Bidder agrees that if it makes incorrect statement on this subject, Bidder can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.

4.0 Earnest Money (Security Deposit)

The provision regarding Earnest Money/Security Deposit as detailed in the Notice Inviting Tender (NIT) and Instruction to Bidders (ITB) section of the Bid Document is to be referred.

5.0 Sanctions for Violations

- 5.1 Any breach of the aforesaid provisions by the Bidder/Contractor or any one employed by it or acting on its behalf shall entitle the Employer to take action as per the procedure mentioned in the "Guidelines on Banning of Business Dealings" attached as Annex- A and initiate all or any one of the following actions, wherever required:-
 - (i) To immediately disqualify the bidder and call off the pre contract proceedings without assigning any reason or giving any compensation to the Bidder/Contractor. However, the proceedings with the other Bidder(s)/Contractor(s) would continue.
 - (ii) The Earnest Money Deposit (in pre-contract stage) and/or Security Deposit/Performance Bond (after the contract is Signed) shall stand forfeited either fully or partially, as decided by the Employer and the Employer shall not be required to assign any reason thereof.
 - (iii) To immediately cancel the contract, if already signed, without giving any compensation to the Contractor. The Bidder/Contractor shall be liable to pay compensation for any loss or damage to the Employer resulting from such cancellation/rescission and the Employer shall be entitled to deduct the amount so payable from the money(s) due to the Bidder/Contractor.
 - (iv) To encash the Bank guarantee, in order to recover the dues if any by the Employer, along with interest as per the provision of contract.
 - (v) To debar the Bidder/Contractor from participating in future bidding processes of Employer, as per provisions of "Guidelines on Banning of Business Dealings" (Annex-A), which may be further extended at the discretion of the Employer.
 - (vi) To recover all sums paid in violation of this Pact by Bidder(s)/Contractor(s) to any middleman or agent or broker with a view to securing the contract.
 - (vii) In cases where irrevocable Letters of Credit have been received in respect of any contract signed by the Employer with the Bidder/ Contractor, the same shall not be opened/operated.
 - (viii) Forfeiture of Performance Security in case of a decision by the Employer to forfeit the same without assigning any reason for imposing sanction for violation of this Pact.
- 5.2 The Employer will be entitled to take all or any of the actions mentioned at para 5.1 (i) to (viii) of this Pact also on the Commission by the Bidder/Contractor or any one employed by it or acting on its behalf (whether with or without the knowledge of the Bidder/Contractor), of an offence as defined in GFR, Chapter IX of the Indian Penal Code, 1860 or Prevention of Corruption Act, 1988 or any other statute enacted for prevention of corruption in Employer's country.
- 5.3 The decision of the Employer to the effect that a breach of the provisions of this Pact has been committed by the Bidder / Contractor shall be final and conclusive on the Bidder / Contractor. However, the Bidder/Contractor can approach the Independent External Monitor(s) appointed for the purposes of this Pact.

6.0 Independent External Monitor(s)

- 6.1 The Employer has appointed Independent External Monitor(s) (hereinafter referred to as Monitors) for this Pact.
- 6.2 The task of the Monitors shall be to review independently and objectively, whether and to what extent the parties comply with the obligations under this Pact.

- 6.3 The Monitors shall not be subject to instructions by the representatives of the parties and perform their functions neutrally and independently.
- 6.4 Both the parties accept that the Monitors have the right to access all the documents relating to the project/procurement for which a complaint or issue is raised before them, including minutes of meetings. The right to access records should only be limited to the extent absolutely necessary to investigate the issue related to the subject tender/contract.
- 6.5 As soon as the Monitor notices, or has reason to believe, a violation of this Pact, he will so inform CMD/CEO/MD of Employer and request Employer to discontinue or take corrective action, 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.
- 6.6 The Bidder(s)/Contractor(s) accepts that the Monitor has the right to access without restriction, to all Project documentation of the Employer including that provided by the Bidder/Contractor. The Bidder/Contractor will also grant the Monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his project documentation. The same is applicable to Subcontractor(s). The Monitor shall be under obligation treat the information and documents the contractual to of Bidder/Contractor/Subcontractor(s) with confidentiality.
- 6.7 The Employer will provide to the Monitor sufficient information about all meetings among the parties related to the project provided such meetings could have an impact on the contractual relations between the parties. The parties will offer to the Monitor the option to participate in such meetings as and when required.
- 6.8 The Monitor will submit a written report to the CMD/CEO/MD of Employer within 30 days from the date of reference or intimation to him by the Employer/Bidder and should the occasion arise, submit proposals for correcting problematic situations.
- 6.9 The word 'Monitor' would include both singular and plural.
- 6.10 In the event of a dispute between the management and the contractor related to those contracts were integrity pact is applicable, in case both the parties agree, they may try to settle the dispute through mediation before the panel of IEMs in a time bound manner. In case the dispute remains unresolved even after mediation by the panel of IEMs, SJVN may take further action as per the terms and conditions of Contract. Expenses on dispute resolution shall be equally shared by both the parties.

7.0 Facilitation of Investigation

In case of any allegation of violation of any provisions of this Pact or payment of commission, the Employer or its agencies shall be entitled to examine all the documents including the Books of Accounts of the Bidder/Contractor and the Bidder/Contractor shall provide necessary information and documents in English and shall extend all possible help for the purpose of such examination.

8.0 Law and Place of Jurisdiction

This Pact is subject to ______ (Employer's Country) Law. The place of performance and jurisdiction is the Registered Office of the Employer. The arbitration clause provided in the tender document/contract shall not be applicable for any issue/dispute arising

under Integrity Pact.

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9.0 Other Legal Actions

- 9.1 The actions stipulated in this Integrity Pact are without prejudice to any other legal action that may follow in accordance with the provisions of the extant law in force relating to any civil or criminal proceedings.
- 9.2 Changes and supplements as well as termination notice need to be made in writing.
- 9.3 If the Contractor is a partnership or a consortium or a joint venture, this pact must be signed by all partners of the consortium/joint venture.

10.0 Validity

- 10.1 Integrity Pact, in respect of particular contract shall be operative from the date Integrity Pact is signed by both the parties.
- 10.2 Should one or several provisions of this Pact turn out to be invalid, the remainder of this Pact shall remain valid. In this case, the parties will strive to come to an agreement to their original intention.

11.0 The Parties hereby sign this Integrity Pact at	on
Employer	Bidder
Name of the Officer	(Authorised Person) (Name of the Person) Designation
Designation	Place
Place	Date
Date	
Witness1.	Witness1.
(Name and address)	(Name and address)
2	2
(Name and address)	(Name and address)

RFS for SRPD for Design, Supply, Installation, Testing and Commissioning including Warranty, Comprehensive O&M for cumulative capacity of 18 MW Grid Connected RTS Projects (without battery storage) on Union Government Buildings under PM Surya Ghar: Muft Bijli Yojana. (RFS No.: SJVN/RTS/2024-25/Rooftop Solar-5, TSC No. SJVN-2024-TN000015)

Page 94 of 137

Annexure-A of Format 7.9

Guidelines on Banning of Business Dealings

1.0 Introduction

- 1.1 Employer deals with Agencies viz. parties/ contractors/ suppliers/ bidders, who are expected to adopt ethics of highest standards and a very high degree of integrity, commitments and sincerity towards the work undertaken. It is not in the interest of Employer to deal with Agencies who commit deception, fraud or other misconduct in the tendering process.
- 1.2 Since banning of business dealings involves civil consequences for an Agency concerned, it is incumbent that adequate opportunity of hearing is provided and the explanation, if tendered, is considered before passing any order in this regard keeping in view the facts and circumstances of the case.

2.0 Scope

- 2.1 The Information for Bidders/ Instruction to Bidders and even the General Conditions of Contract (GCC) of Employer generally provide that Employer shall have the rights to remove from list of approved suppliers / contractors or to ban business dealings if any Agency has been found to have committed misconduct or fraud or anything unethical not expected from a reputed contractor.
- 2.2 The procedure of (i) Removal of Agency from the List of approved suppliers / contractors; (ii) Suspension and (iii) Banning of Business Dealing with Agencies, has been laid down in these guidelines.
- 2.3 These guidelines shall apply to all the Projects/ Power Stations/ Regional Offices/ Liaison Offices of SJVN including its subsidiaries and JVs.
- 2.4 It is clarified that these guidelines do not deal with the poor performance of the contractors/ Agencies.
- 2.5 The banning shall be with prospective effect, i.e. future business dealings.

3.0 <u>Definitions</u>

In these Guidelines, unless the context otherwise requires:

- i) "Party / Contractor / Supplier / Bidders" shall mean and include a public limited company or a private limited company, a joint Venture, Consortium, HUF, a firm whether registered or not, an individual, cooperative society or an association or a group of persons engaged in any commerce, trade, industry, etc.
 "Party / Contractor/ Supplier / Bidder' in the context of these guidelines is indicated as 'Agency'.
- ii) "Unit" shall mean the Project/ Power Station/ Regional Office/ Liaison Office.
- iii) "Competent Authority" and 'Appellate Authority' shall mean the following:

The concerned Director shall be the 'Competent Authority' for the purpose of these guidelines.

CMD shall be the 'Appellate Authority' in respect of such cases.

- iv) **"Investigating Committee"** shall mean any Officer/Committee appointed by Competent Authority to conduct investigation.
- v) **"List of approved Agencies viz Parties / Contractors / Suppliers/Bidders"** shall mean and include list of Parties/ Contractors / Suppliers / Bidders etc if registered with Employer.

4.0 Initiation of Banning / Suspension

Action for banning /suspension business dealings with any Agency shall be initiated by the department responsible for invitation of bids after noticing the irregularities or misconduct on the part of Agency concerned. Besides the concerned department, Vigilance Department of each Unit/ Corporate Vigilance may also be competent to initiate such action.

5.0 <u>Suspension of Business Dealings.</u>

- 5.1 If the conduct of any Agency dealing with Employer is under investigation, the Competent Authority may consider whether the allegations (under investigation) are of a serious nature and whether pending investigation, it would be advisable to continue business dealing with the Agency. If the Competent Authority, after consideration of the matter including the recommendation of the Investigating Committee, if any, decides that it would not be in the interest to continue business dealings pending investigation, it may suspend business dealings with the Agency. The order of suspension would operate for a period not more than six months and may be communicated to the Agency as also to the Investigating Committee. The Investigating Committee may ensure that their investigation is completed and whole process of final order is over within such period. However, if investigations are not completed in six months time, the Competent Authority may extend the period of suspension by another three months, during which period the investigations must be completed.
- 5.2 The order of suspension shall be communicated to all Departmental Heads of SJVN (including its subsidiaries and JVs) and Heads of the Units. During the period of suspension, no business dealing may be held with the Agency.
- 5.3 As far as possible, the existing contract(s) with the Agency may continue unless the Competent Authority, having regard to the circumstances of the case, decides otherwise.
- 5.4 If the Agency concerned asks for detailed reasons of suspension, the Agency may be informed that its conduct is under investigation. It is not necessary to enter into correspondence or argument with the Agency at this stage.
- 5.5 It is not necessary to give any show-cause notice or personal hearing to the Agency before issuing the order of suspension.

6.0 Ground on which Banning of Business Dealings can be initiated:

6.1 If the security consideration, including questions of loyalty of the Agency to

Employer so warrants;

- 6.2 If the director /owner of the Agency, proprietor or partner of the firm, is convicted by a Court of Law for offences involving moral turpitude in relation to its business dealings with the Government or any other public sector enterprises, during the last three years.
- 6.3 If business dealings with the Agency have been banned by the Department of Power, Government of India and the relevant government department of Employer's Country.
- 6.4 If the Agency has resorted to corrupt, fraudulent practices including misrepresentation of facts;
- 6.5 If the Agency uses intimidation / threatening or brings undue outside pressure on Employer or its official for acceptance / performances of the job under the contract;
- 6.6 If the Agency misuses the premises or facilities of Employer, forcefully occupies or damages Employer's properties including land, water resources, forests / trees or tampers with documents/records etc. (Note: The examples given above are only illustrative and not exhaustive. The Competent Authority may decide to ban business dealing for any good and sufficient reason).

7.0 Banning of Business Dealings

- 7. 1 A decision to ban business dealings with any Agency shall apply throughout SJVN including its subsidiaries/JVs.
- 7.2 There will be an Investigating Committee consisting of officers not below the rank of AGM/DGM from Indenting Division, Finance, Law and Contracts.

Member from department responsible for invitation of bids shall be the convener of the committee. The functions of the committee shall, inter-alia include:

- i) To study the report of the unit/division responsible for invitation of bids and decide if a prima-facie case for banning exists, if not, send back the case to the Competent Authority.
- ii) To recommend for issue of show-cause notice to the Agency by the concerned unit/division as per clause 9.1.
- iii)To examine the reply to show-cause notice and call the Agency for personal hearing, if required.
- iv) To submit final recommendations to the Competent Authority for banning or otherwise.

8.0 <u>Removal from List of Approved Agencies - Suppliers/ Contractors, etc.</u>

8.1 If the Competent Authority decides that the charge against the Agency is of a minor

nature, it may issue a show-cause notice as to why the name of the Agency should not be removed from the list of approved Agencies - Suppliers / Contractors, etc.

- 8.2 The effect of such an order would be that the Agency would not be qualified for competing in Open Tender Enquiries or Limited Tender Enquiries till the period mentioned in the order.
- 8.3 Past performance of the Agency may be taken into account while processing approval of the Competent Authority for award of the contract.

9.0 <u>Show-cause Notice</u>

- 9.1 In case where the Competent Authority decides that action against an Agency is called for, a show-cause notice has to be issued to the Agency, Statement containing the imputation of misconduct or misbehavior may be appended to the show-cause notice and the Agency should be asked to submit within 15 days a written statement in its defense.
- 9.2 If the Agency requests for inspection of any relevant document in possession of Employer, necessary facility for inspection of documents may be provided.
- 9.3 The Competent Authority may consider and pass an appropriate speaking order:

a) For exonerating the Agency if the charges are not established;

b) For removing the Agency from the list of approved Suppliers / Contactors, etc.

c) For banning the business dealing with the Agency.

9.4 If it decides to ban business dealings, the period for which the ban would be operative may be mentioned.

10.0 Appeal against the Decision of the Competent Authority

- 10.1 The Agency may file an appeal against the order of the Competent Authority banning business dealing etc. The appeal shall be filed to Appellate Authority. Such an appeal shall be preferred within one month from the date of receipt of the order banning business dealing, etc.
- 10.2 Appellate Authority would consider the appeal and pass appropriate order which shall be communicated to the Agency as well as the Competent Authority.

11.0 <u>Circulation of the names of Agencies with whom Business Dealings have been</u> <u>banned</u>

- i) The concerned unit shall forward the name and details of the Agency(ies) banned to IT&SE Division of SJVN's Corporate Office for displaying the same on SJVN website.
- ii) Corporate Contracts Department shall also forward the name and details of the Agency(ies) banned to the Ministry of Power, GoI besides forwarding the name and details to the contracts/procurement group of all CPSUs of power sector.

FORM OF DECLARATION OF ELIGIBILITY <u>UNDERTAKING</u>

I / We, M/s(Name of Bidder) hereby certify that I / we have not been banned /de-listed/ black listed / debarred from business by any PSU / Govt. Department during last 03 (three) years on the grounds mentioned in para 6 of Guidelines on banning of Business dealing (Annex-A to Pre-Contract Integrity Pact) of Tender Document.

(Seal & signature of the Bidder)

RFS for SRPD for Design, Supply, Installation, Testing and Commissioning including Warranty, Comprehensive O&M for cumulative capacity of 18 MW Grid Connected RTS Projects (without battery storage) on Union Government Buildings under PM Surya Ghar: Muft Bijli Yojana. (RFS No.: SJVN/RTS/2024-25/Rooftop Solar-5, TSC No. SJVN-2024-TN000015)

Page 99 of 137

FORMAT 7.10

FORMAT FOR SUBMISSION OF FINANCIAL BID

(The Covering Letter should be submitted on the Letter Head of the Bidding Company/Lead Member of Consortium)

Ref. No.

Date:

From (Insert name and address of Bidding Company/ Lead Member of Consortium)

••••••

Tel.#: Fax#: E-mail address#

То

SJVN Limited 6th Floor, Plate-B, NBCC Office Block Tower-1 ,East Kidwai Nagar, New Delhi -110 023

Sub: Response to RfS No..... dated......for.....

Dear Sir/ Madam,

I/ We,..... (*Insert Name of the Bidder*) enclose herewith the Financial Proposal for selection of my/ our firm for......)State(s){insert name of states} for a quoted capacity ofkW {insert capacity state wise}respectively in India as Bidder for the above.

I/We agree that this offer shall remain valid for a period of 12 months from the due date of submission of the response to RfS and such further period as may be mutually agreed upon.

Dated theday of , 20....

Name, Designation, Seal and Signature of Authorized Person in whose name Power of Attorney/ Board Resolution/ Declaration

Notes:

- 1) For each location identified statewise, there can be only one tariff for all the projects applied for. If the bidder quotes two tariffs or combination thereof for the projects for a state, then the bid shall be considered as non-responsive.
- 2) If the bidder submits the financial bid in the Electronic Form at ETS portal not in line with the

instructions mentioned therein, then the bid shall be considered as non-responsive.

- *3)* Tariff requirement shall be quoted as a fixed/firm amount in Indian Rupees only. Conditional proposal shall be summarily rejected.
- *4) In the event of any discrepancy between the values entered in figures and in words, the values entered in words shall be considered.*
- 5) Tariff should be in Indian Rupee up to two decimal places only.

FORMAT 7.11

Request for Selection (RfS) for Selection of Solar Rooftop Power Developers for Setting up of **cumulative capacity of 18,000 kW** Grid connected Rooftop Solar Power Projects (Without battery storage) spread over in the states **New Delhi, Punjab, Rajasthan, Haryana, Uttar Pradesh, Bihar, Jharkhand, Madhya Pradesh, Chhattisgarh, Gujarat, Maharashtra, Goa, Kerala, Telangana, Andhra Pradesh** under RESCO mode through Tariff–Based Competitive Bidding under PM Surya Ghar: Muft Bijli Yojana".

TECHNICAL ELIGIBILITY CRITERIA:

For SJVN empaneled Vendors

The vendors which are empaneled in SJVN vide EOI No. SJVN/RTS/2024-25/Rooftop Solar-1 dated: 18.07.2024 Tender Search Code (TSC): SJVN-2024-TN000007 shall be treated as "Technically Qualified" and only "Financial Eligibility" criteria of those vendors shall be evaluated.

For bidders other than SJVN empaneled vendors

The bidder must have experience in "Similar Works" as defined below:-

The Bidder must have experience in Design, Supply, Installation and Commissioning of Grid Connected Rooftop/Ground mounted Solar Photo Voltic (SPV) Power Plants in India of cumulative Installed Capacity of 500kWp or higher in the last 07 (Seven) Years prior to the last day of month previous to the one in which the RfS is invited. (As per Format no.7.11 Table – A)

AND

Out of the above stated cumulative installed capacity, at least 01 Nos. Grid Connected Rooftop/Ground mounted Solar Photo Voltic (SPV) Power Plants should have been of 100 kWp or higher capacity. These reference plant must have been in successful operation for atleast 06 (six) months ending prior to last day of month previous to the one in which the RfS is invited. (As per Format no.7.11 Table –B)

RFS for SRPD for Design, Supply, Installation, Testing and Commissioning including Warranty, Comprehensive O&M for cumulative capacity of 18 MW Grid Connected RTS Projects (without battery storage) on Union Government Buildings under PM Surya Ghar: Muft Bijli Yojana. (RFS No.: SJVN/RTS/2024-25/Rooftop Solar-5, TSC No. SJVN-2024-TN000015)

Page 102 of 137

TECHNICAL ELIGIBILITY CRITERIA: (For Bidding Consortium)

The bidding Consortium must have experience in "Similar Works" as defined below:-

Any member of Bidding consortium must have experience in Design, Supply, Installation and Commissioning of Grid Connected Rooftop/Ground mounted Solar Photo Voltic (SPV) Power Plants in India of cumulative Installed Capacity of 500kWp or higher in the last 07 (Seven) Years prior to the last day of month previous to the one in which the RfS is invited. (As per Format no.7.11 Table – A)

AND

Out of the above stated cumulative installed capacity, at least 01 Nos. Grid Connected Rooftop/Ground mounted Solar Photo Voltic (SPV) Power Plants should have been of 100 kWp or higher capacity. These reference plant must have been in successful operation for atleast 06 (six) months ending prior to last day of month previous to the one in which the RfS is invited. (As per Format no.7.11 Table –B)

<u>Format no.7.11 Table – A</u>: Detail of Grid Connected Rooftop/Ground mounted Solar Photo Voltic (SPV) Power Plants in India claimed towards cumulative installation Capacity of 500kWp or higher in the last 07 (Seven) Years prior to the last day of month previous to the one in which the RFS is invited.

Sl. No.	Client Name & Address	Details of Letter of Award (LOA)	Awarded Capacity as per Letter of Award (in kWp)	Actual Date of Commissioning	Remarks

<u>Format no.7.11 Table – B</u>: Detail of Grid Connected Rooftop/Ground mounted Solar Photo Voltic (SPV) Power Plants in India claimed towards successful operation for atleast 06 (six) months ending prior to last day of month previous to the one in which the RfS is invited. (For reference plant)

Sl. No.	Client Name & Address	Details of Letter of Award (LOA)	Awarded Capacity as per Letter of Award (in kWp)	Commissioned Installed Capacity (in kWp)	Actual Date of Commissioning	Plants in successful operation for atleast 06 months ending prior to last day of month previous to the one in which the RFS is invited (YES/NO)	Remarks

Note: 1. The above Attachment shall be filled up by the bidder for himself, being proposed by the bidder in his bid.
 2.Continuation sheets of like size & format may be used if required and annexed to this Attachment.
 3.Commissioned installed capacity as per completion certificate of project (s) will be considered qualifying towards above technical qualifying requirement

Place:

(Signature)
(Printed Name)
(Designation)
(Company Seal)

RFS for SRPD for Design, Supply, Installation, Testing and Commissioning including Warranty, Comprehensive
O&M for cumulative capacity of 18 MW Grid Connected RTS Projects (without battery storage) on Union
Government Buildings under PM Surya Ghar: Muft Bijli Yojana. (RFS No.: SJVN/RTS/2024-25/Rooftop Solar-
5, TSC No. SJVN-2024-TN000015)P.

Page 104 of 137

Annexure-B

<u>TECHNICAL SPECIFICATIONS FOR GRID CONNECTED ROOFTOP SOLAR PLANTS</u> <u>INSTALLED UNDER THE COMPONENT OF "CENTRAL / STATE GOVERNEMENT</u> <u>OFFICES / BUILDINGS" OF PM-SURYA GHAR: MUFT BIJLI YOJANA</u>

The projects under PM-Surya Ghar: Muft Bijli Yojana shall be commissioned as per the technical specifications given below. All component of the PV plant, design & commissioning shall be in accordance with technical specification given in latest IS/IEC standards. The SPD/Vendor will be solely responsible for any shortcomings or negligence/malpractice, which may lead to the delisting/blacklisting of the firm/vendor from participation in any programme of the SJVN.

A Roof Top Solar (RTS) Photovoltaic (PV) System shall consist of following equipment / components:

- 1. Solar Photo Voltaic (SPV) me>dules consisting of required number of SPV modules
- 2. Inverter/PCU
- 3. Module. Mounting structures
- 4. Net Meter/Smart Meter
- 5. Array Junction Boxes
- 6. DC Distribution Box
- 7. AC Distribution Box
- 8. Protections Earthing, Lightning, Surge
- 9. Cables
- 10. Drawing & Manuals
- 11. Miscellaneous

Components/Package of Grid Connected Rooftop Solar PV System: The components of a Grid Connected Rooftop Solar PV System shall essentially comprise but not be limited to solar PV Panels/modules of required number, Inverters/PCU, module mounting structures, total Cable/wiring of suitable length, cable conduits, required array junction boxes, DC distribution box, AC distribution box, various connectors, nut- bolts, civil and mechanical works, Protection - Earthing, lightning, surges, drawling & manual, 25 years of comprehensive operation & maintenance of grid-connected rooftop solar PV plant and other miscellaneous works (under RESCO mode).

1. Solar PV Modules

1.1 The PV Module and solar cell used should be MADE IN INDIA.

- 1.2 A single Solar PV Module of minimum capacity shall be equal to or more than 400Wp.
- 1.3 The PV modules used must qualify to the latest edition of IEC standards or equivalent BIS standards, i.e. IEC 61215/15 14286, IEC 61853-Part I or IS 16170-Part I, 15/IEC 61730 Part-1 & Part 2 and IS 17210{part 1} or IEC 62804-1 (PIO}. For the PV modules to be used in a highly corrosive atmosphere throughout their lifetime, they must qualify to IEC 61701/15 61701. Thin Film terrestrial photovoltaic {PV} modules must qualify to IS 16077: 2013 / IEC 61646: 2008.
- 1.4 The rated power of solar PV module shall have maximum tolerance up to +3%.
- 1.5 The peak-power point current of any supplied module string (series connected modules) shall not vary by +1% from the respective arithmetic means for all modules and/or for all module strings {connected to the same MPPT}, as the case may be.

- 1.6 The peak-power point voltage of any supplied module string (series connected modules) shall not vary by + 2% from the respective arithmetic means for all modules and/or for all module strings (connected to the same MPPT), as the case may be.
- 1.7 The temperature co-efficient power of the PV module shall be equal to or better than -0.4%/°C for crystalline modules and -0.3 %/°C for thin films modules.
- 1.8 Solar PV modules capacity to be used should adhere to the Approved List of Models and Manufacturers (ALMM) of Solar Photovoltaic Modules list -1 (Requirement for Compulsory Registration) Order 2019 Implementation issued vide OM NO. 283/54/2018-GRI D SOLAR Part (I) Dated 10th March 2021 and subsequent amendments/clarifications thereto, issued under the subject order. Solar PV modules and solar PV cells used in Rooftop solar project shall be from the models and manufacturers included in ALMM list -I (for Solar PV modules) and ALMM List -II (for solar PV cells).
- 1.9 Thin Film Technology based Solar PV Modules enlisted in ALMM List-I and manufactured in Integrated Solar PV Modules Manufacturing units enlisted in ALMM List-I, shall be considered to be in deemed compliance to the requirement of using solar PV cells from ALMM List-II.
- 1.10 Solar PV modules of minimum fill factor 75%, to be used.
- 1.11 All PV modules should have a nominal power output of >90% at STC during the first 10 years, and >80% during the next 15 years. Further, module shall have nominal power output of >97% during the first year of installation-degradation of the module below 0.5 % per annum
- 1.12 The SPD/Vendor should warrant the Solar Module(s) to be free from the defects and/or failures specified below for a period not less than Ten (10) years & term of PPA (under RESCO mode)
 - i. Defects and/or failures due to manufacturing.
 - ii. Defects and/or failures due to quality of materials.
 - iii. Nonconformity to specifications due to faulty manufacturing and/or inspection processes. If the solar Module(s) fails to conform to this warranty, the vendor will repair or replace the solar module{s), his own cost. The PV modules shall be replaced by SPD/Vendor, without charging any cost to the end consumer during the specified period of warranty & term of PPA.
- 1.13 Modules deployed must use a RF identification tag laminated inside the glass. The following information must be mentioned in the RFID used on each module:
 - i. Name of the manufacturer of the PV module
 - ii. Name of the manufacturer of 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 Wattage, Im, Vm and FF for the module
 - vi. Unique Serial No and Model No of the module
 - vii. Date and year of obtaining IEC PV module qualification certificate.
 - viii. Name of the test lab issuing IEC certificate.
 - ix. Other relevant information on traceability of solar cells and module as per ISO 9001 and ISO 14001.
 - x. Nominal wattage +3%.
 - xi. Name, if applicable.

ii.

- 1.14 Other details as per IS/IEC 61730-1 clause 11 should be provided at appropriate place. In addition to the above, the following information should also be provided:
 - i. The actual Power Output Pmax shall be mentioned on the label pasted on the back side of PV Module.
 - The Maximum system voltage for which the module is suitable to be provided on the back

sheet of the module.

- iii. Polarity of terminals or leads (colour coding is permissible) on junction Box housing near cable entry or cable and connector.
- 1.15 Unique Serial No, Model No, Name of Manufacturer, Manufacturing year, Make in India logo and module wattage details should be displayed inside the laminated glass.

2 Inverter /PCU

- 2.1 The Solar Photovoltaic Inverters must comply with the Quality Control Ord.er dated 30.08.2017 for Solar Photovoltaic Inverters and its amendments thereof. The warranty shall be till tenure of PPA(under RESCO model).
- 2.2 Inverters/PCU should comply with applicable IEC/equivalent BIS standard for efficiency measurements and environmental tests as per standard codes IEC 61683/IS 61683, IS 16221 (Part 2), IS 16169 and IEC 60068-2(1,2,14,30) /Equivalent BIS Std.
- 2.3 Maximum Power Point Tracker (MPPT) shall be integrated in the inverter/PCU to maximize energy drawn from the array. Charge controller (if any) / MPPT units environmental testing should qualify IEC 60068-2(1, 2, 14, 30)/Equivalent BIS standard. The junction boxes/enclosures should be IP 65 or better {for outdoor)/ IP 54or better (indoor) and as per IEC □29 Specifications.
- 2.4 All inverters/PCUs shall be IEC 61000 compliant for electromagnetic compatibility, harmonics, Surge, etc.
- 2.5 The PCU/ inverter shall have overloading capacity of minimum 20%.
- 2.6 Typical technical features of the inverter shall be as follows
 - i. Nominal AC output voltage and frequency: as per CEA/State regulations
 - ii. Output frequency: 50 Hz
 - iii. Grid Frequency Synchronization range: as per CEA/State Regulations
 - iv. Ambient temperature considered: -20°C to 60°C
 - v. Protection · of Enclosure: IP-54 (Minimum) for indoor and IP-65(Minimum) for outdoor.
 - vi. Grid Frequency Tolerance range: as per CEA/State regulations
 - vii. Grid Voltage tolerance: as per CEA/State Regulations
 - viii. No-load losses: Less than 1% of rated power
 - ix. Inverter efficiency (Min.):
 - a. >90% (In case of 10 kW or below with in-built galvanic isolation).
 - b. >97% (in case of 10kW & above without inbuilt galvanic isolation)
 - c. >93% (in case of 10kW or above with inbuilt galvanic isolation)
 - x. The minimum overall Efficiency (11t) as per IS 17980 for Solar Inverters should adhere to the following:
 - a. THD: < 3%
 - b. PF:> 0.9 (lag or lead)
 - c. Should not inject DC power more than 0.5% of full rated output at the interconnection point and comply to IEEE 519.
 - d. The inverter should have the inbuilt facility to communicate system related data through SIM/dongle. The inverter may also be enabled for Wi-Fi based communication.
- 2.7 All the Inverters should contain the following clear and indelible Marking Label & Warning Label as per 1516221 Part 11, clause 5. The equipment shall, as a minimum, be permanently marked with:
 - i. The name or trademark of the manufacturer or supplier;
 - ii. A model number, name or other means to identify the equipment,
 - iii. A serial number, code or other marking allowing identification of manufacturing location and the manufacturing batch or date within a twelve-month time period.
 - iv. Input voltage, type of voltage (a.c. or d.c.), frequency, and maximum continuous current for each input.

- v. The Ingress Protection (IP) rating.
- 2.8 In case the consumer is having a 3-phase connection, 1-phase/3-phase inverter shall be provided by the SPD/Vendor as per the consumer's requirement and regulations of the State.
- 2.9 Inverter/PCU shall be capable of complete automatic operation including wake-up, synchronization & shutdown.
- 2.10 Integration of PV Power with Grid & Grid Islanding:
 - i. In the event of a power failure on the electric grid, it is required that any independent powerproducing inverters attached to the grid turn off in a short period of time. This prevents the DC-to-AC inverters from continuing to feed power into small sections of the grid, known as "islands." Powered islands present a risk to workers who may expect the area to be unpowered, and they may also damage grid-tied equipment. The Rooftop PV system shall be equipped with islanding protection. In addition to disconnection from the grid (due to islanding protection) disconnection due to under and over voltage conditions shall also be provided, if not available in inverter.

3. Module Mounting Structure (MMS):

- 3.1 Supply, installation, erection and acceptance of module mounting structure (MMS) with all necessary accessories, auxiliaries and spare part shall be in the scope of the work.
- 3.2 Module mounting structures can be made from three types of materials. They are Hot Dip Galvanized Iron, Aluminium and Hot Dip Galvanized Mild Steel (MS). However, MS will be preferred for raised structure.
- 3.3 MMS Steel shall be as per latest IS 2062:2011 and galvanization of the mounting structure shall be in compliance of latest IS 4759. MMS Aluminium shall be as per AA6063 T6. For Aluminium structures, necessary protection towards rusting need to be provided either by coating or anodization.
- 3.4 All bolts, nuts, fasteners shall be of stainless steel of grade SS 304 or hot dip galvanized, panel mounting clamps shall be of aluminium and must sustain the adverse climatic conditions. Structural material shall be corrosion resistant and electrolytically compatible with the materials used in the module frame, its fasteners, nuts and bolts.
- 3.5 The module mounting structures should have angle of inclination as per the site conditions to take maximum insolation and complete shadow-free operation during generation hours. However, to accommodate more capacity the angle of inclination may be reduced until the plant meets the specified performance ratio requirements.
- 3.6 The Mounting structure shall be so designed to withstand the speed for the wind zone of the location where a PV system is proposed to be installed. The PV array structure design shall be appropriate with a factor of safety of minimum 1.5.
- 3.7 The upper edge of the module must be covered with wind shield so as to avoid build air ingress below the module. Slight clearance must be provided on both edges (upper & lower) to allow air for cooling.
- 3.8 Suitable fastening arrangement such as grouting and calming should be provided to secure the installation against the specific wind speed. The SPD/Vendor shall be fully responsible for any damages to SPV System caused due to high wind velocity within guarantee period & term of PPA as per technical specification.
- 3.9 The structures shall be designed to allow easy replacement, repairing and cleaning of any module. The array structure shall be so designed that it will occupy minimum space without sacrificing the output from the SPV panels. Necessary testing provision for MMS to be made available at site.
- 3.10 Adequate spacing shall be provided between two panel frames and rows of panels to facilitate 9999personnel protection, ease of installation, replacement, cleaning of panels and electrical maintenance.
- 3.11 The structure shall be designed to withstand operating environmental conditions for a period of minimum 25 years.
- 3.12 The Rooftop Structures maybe classified in three broad categories as follows:

3.12.1 Ballast Structure

- a. The mounting structure must be Non-invasive ballast type and any sort of penetration of roof to be avoided.
- b. The minimum clearance of the structure from the roof level should be in between 70- 150 mm to allow ventilation for cooling, also ease of cleaning and maintenance of panels as well as cleaning of terrace.
- c. The structures should be suitably loaded with reinforced concrete blocks of appropriate weight made out of M25 concrete mixture.

3.12.2 Tin Shed

- a. The structure design should be as per the slope of the tin shed.
- b. The inclination angle of structure can be done in two ways-
- c. Parallel to the tin shed (flat keeping zero-degree tiling angle), if the slope of shed in Proper south direction
- d. With same tilt angle based on the slope of tin shed to get the maximum output.
- e. The minimum clearance of the lowest point from the tin shade should be more then 100mm.
- f. The base of structure should be connected on the Purlin of tin shed with the proper riveting.
- g. All structure member should be of minimum 2 mm thickness.

3.12.3 RCC Elevated structure: It can be divided into further three categories:

A) Minimum clearance from roof (upto 1000 MM) (for reference only)

- a. The structure shall be designed to allow easy replacement of any module and shall be in line with site requirement. The gap between module should be minimum 30MM.
- b. Base Plate-Base plate thickness of the Structure should be SMM for this segment.
- c. Column -Structure Column should be minimum 2MM in Lip section/ 3MM in C-Channel section. The minimum section should be 70MM in Web side and 40 MM in flange side in Lip section.
- d. Rafter -Structure rafter should be minimum 2MM in Up section / 3MM in (-Channel section. The minimum section should be 70MM in Web side (y-axis) and 40 MM in flange side (x-axis).
- e. Purlin -Structure purlin should be minimum 2MM in Lip section. The minimum section should be 60MM in Web side and 40MM in flange side in Lip section.
- f. Front/back bracing -The section for bracing part should be minimum 2MM thickness.
- g. Connection -The structure connection should be bolted completely. Leg to rafter should be connected with minimum 12 diameter bolt. Rafter and purlin should be connected with minimum 10 diameter bolt. Module mounting fasteners should be SS-304 only and remaining fasteners either SS-304 or HDG 8.8 Grade,
- h. For single portrait structure the minimum ground clearance should be SOOMM.

B) Medium clearance from roof (1000MM - 2000 MM) (for reference only)

- a. Base Plate Base plate thickness of the Structure should be Minimum 6MM for this segment.
- b. Column-Structure Column should be minimum 2MM in Up section /3MM in C-Channel section. The minimum section should be 80MM in Web side and SOMM in flange side in Lip section.
- c: Rafter Structure rafter should be minimum 2MM in Lip section/ 3MM in C-Channel section. The minimum section should be 70MM in Web side and 40MM in flange side in Lip section.
- d. Purlin Structure purlin should be minimum 2MM in Lip section. The minimum section should be 70MM in Web side and 40MM in flange side in Lip section.
- e. Front/back bracing The section for bracing part should be minimum 2MM thickness.
- f. Connection The structure connection should be bolted completely. Leg to rafter should be connected with minimum 12 diameter bolt. Rafter and purlin should be connected with minimum 10 diameter bolt. Module mounting fasteners should be SS- 304 only and remaining fasteners either SS-304 or HOG 8.8 Grade.

C) Maximum clearance from roof (2000MM - 3000 MM) (for reference only)

- a. Base Plate Base plate thickness of the Structure should be minimum 8 MM for this segment.
- b. Column Structure Column thickness should be minimum 2.6MM in square hollow section (minimum SOxSO) or rectangular hollow section (minimum 60x40) or 3MM in C-Channel section.

- c. Rafter Structure rafter should be minimum 2MM in Lip section / 3MM in Channel section. The minimum section should be 80MM in Web side and 50MM in flange side in Lip section.
- d. Purl in Structure purlih should be minimum 2MM in Lip section. The minimum section should be 80MM in Web side and SOMM in flange side in Lip section.
- e. Front/back bracing The section for bracing part should be minimum 3MM thickness.
- f. Connection The structure connection should be bolted completely. Leg to rafter should be connected with minimum 12 diameter bolt. Rafter and purlin should be connected with minimum 10 diameter bolt. Module mounting fasteners should be 55- 304 only and remaining fasteners either SS-304 or HOG 8.8 Grade.

D) Super elevated structure (More than 3000 MM clearance from roof) (for reference only)

A. Base structure

- a. Base Plate Base plate thickness of the Structure should be 10MM for this segment.
- b. Column Structure Column minimum thickness should be minimum 2.9MM in square hollow section (minimum 60x60) or rectangular hollow section (minimum 80x40).
- c. Rafter Structure Rafter minimum thickness should be minimum 2.9MM in square hollow section (minimum 60x60) or rectangular hollow section (minimum 80x40).
- d. Cross bracing- Bracing for the connection of rafter and column should be of minimum thickness of 4mm L-angle with the help of minimum bolt diameter of 10mm.

B. Upper Structure of Super Elevated Structure -

- a. Base Plate Base plate thickness of the Structure should be minimum SMM for this segment.
- b. Column Structure Column should be minimum 2MM in Lip section / 3MM in Channel section. The minimum section should be 70MM in Web side and 40MM in flange side in Lip section.
- c. Rafter Structure rafter should be minimum 2MM in Lip section / 3MM in Channel section. The minimum section should be 70MM in Web side and 40MM in flange side in Lip section.
- d. Purlin · Structure purlin should be minimum 2MM in Lip section. The minimum section should be GOMM in Web side and 40MM in flange side in Lip section.
- e. Front/back bracing The section for bracing part should be minimum 2MM thickness.
- f. Connection The structure connection should be bolted completely. Leg to ratter should be connected with minimum 12 diameter bolt. Rafter and
- g. purlin should be connected with minimum 10 diameter bolt. Module mounting fasteners should be SS-304 only and remaining fasteners either SS-304 or HDG 8.8 Grade.
- C. If distance between two legs in X-Direction is more than 3M than sag angle/Bar should be provide for purlin to avoid deflection failure. The sag angle should be minimum 2MM thick, and bar should be minimum 12Dia.
- D. Degree The Module alignment and tilt angle shell be calculated to provide the maximum annual energy output. This shall be decided on the location of array installation.
- E. Foundation Foundation should be as per the roof condition; two types of the foundation can be done- either penetrating the roof or without penetrating the roof.
- a. If penetration on the roof is allowed (based on the client requirement) then minimum 12MM diameter anchor fasteners with minimum length 10DMM can be used with proper chipping. The minimum RCC size should be 400x40Dx300 cubic mm. Material grade of foundation should be minimum M20.
- b. If penetration on roof is not allowed, then foundation can be done with the help of 'J Bolt' (refer IS 5624 for foundation hardware). Proper Neto bond solution should be used to adhere the Foundation block with the RCC roof. Foundation J bolt length should be minimum 12MM diameter and length should be minimum 300MM.

F. Material Standards:

- a. Design of foundation for mounting the structure should be as per defined standards which clearly states the Load Bearing Capacity & other relevant parameters for foundation design (As per IS 6403 / 456 / 4091 / 875).
- b. Grade of raw material to be used for mounting the structures so that it complies the defined wind

loading conditions (As per IS 875 - Ill) should be referred as follows (IS 2062 -for angles and channels, IS 1079 -for sheet, IS 1161 & 1239 for round pipes, IS 4923 for rectangular and square hollow section)

- c. Test reports for the raw material should be as per IS 1852 / 808 / 2062 / 1079 / 811.
- d. In process inspection report as per approved drawing & tolerance should be as per IS 7215.
- e. For ascertaining proper welding of structure part following should be referred:
- f. D.P. Test (Pin Hole/ Crack) (IS 822)
- g. Weld wire grade should be of grade (ER 70 S 6)
- h. For ascertaining hot dip galvanizing of fabricated structure following should be referred:-
- i. Min coating required should be as per IS 4759 & EN 1461.
- j. Testing of galvanized material:
 - a) Pierce Test (IS 2633)
 - b) Mass of Zinc (IS 6745)
 - c) Adhesion Test (IS 2629)
 - d} CuS04 Test (IS 2633)
 - e) Superior High-Grade Zinc Ingot should be of 99.999% purity (IS 209) (Preferably Hindustan Zinc limited or Equivalent).
 - k. Foundation Hardware If using foundation bolt in foundation then it should be as per IS 5624.

4. Metering

- 4.1 The specifications net meter/smart meter shall be as per the latest technical specifications issued by the Central Electricity Authority (CEA) and its amendment thereof.
- 4.2 A Roof Top Solar (RTS) Photo Voltaic (PV) system shall consist of following energy meter's:
 - a) Net meter/ smart meter: To record import and export units.
 - b) Generation meter (if required as per the state regulations): To keep record for total generation of the plant.
- 4.3 The installation of meters including CTs & PTs, wherever applicable, shall be carried out by the respective Discoms as per the terms, conditions and procedures laid down by the concerned SERCs/DISCOMs.

5. Array Junction Boxes

- 5.1 The junction boxes are to be provided in the PV array for termination of connecting cables. The Junction Boxes (JBs) shall be made of GRP/FRP/Powder Coated aluminum /cast aluminum alloy with full dust, water & vermin proof arrangement. All wires/cables must be terminated through cable lugs. The JBs shall be such that input & output termination call be made through suitable cable glands. Suitable markings shall be provided on the bus-bars for easy identification and cable ferrules will be fitted at the cable termination points for identification.
- 5.2 Copper bus bars/terminal blocks housed in the junction box with suitable termination threads Conforming to IP 65 or better standard and IEC 62208 Hinged door with EPDM rubber gasket to prevent water entry, Single /double compression cable glands should be provided.
- 5.3 Polyamide glands and MC4 Connectors may also be provided. The rating of the junction box shall be suitable with adequate safety factor to interconnect the Solar PV array.
- 5.4 Suitable markings shall be provided on the bus bar for easy identification and the cable ferrules must be fitted at the cable termination points for identification.
- 5.5 Junction boxes shall be mounted on the MMS such that they are easily accessible and are protected from direct sunlight and harsh weather.

6. DC Distribution Box (DCDB)

6.1 May not be required for small plants, if suitable arrangement is available in the inverter.

- 6.2 DC Distribution Box are to be provided to receive the DC output from the PV array field.
- 6.3 DCDBs shall be dust & vermin proof conform having IP 65 or better protection, as per site conditions.
- 6.4 The bus bars are made of EC grade copper of required size. Suitable capacity MCBs/MCCB shall be provided for controlling the DC power output to the inverter along with necessary surge arrestors. MCB shall be used for currents up to 63 Amperes, and MCCB shall be used for currents greater than 63 Amperes.

7. AC Distribution Box (ACDB)

- 7.1 AC Distribution Panel Board (DPB) shall control the AC power from inverter, and should have necessary surge arrestors, if required. There is interconnection from ACDB to mains at LT Bus bar while in grid tied mode.
- 7.2 All switches and the circuit breakers, connectors should conform to IEC 60947:2019, part I, II and III/ IS 60947 part I, JI and III.
- 7.3 The isolators, cabling work should be undertaken as part of the project.
- 7.4 All the Panel's shall be metal clad, totally enclosed, rigid, floor mounted, air -insulated, cubical type suitable for operation on 1-phase/3-phase, 415 or 230 volts, 50 Hz (or voltage levels as per CEA/State regulations).
- 7.5 The panels shall be designed for minimum expected ambient temperature of 45 degree Celsius, 80 percent humidity and dusty weather.
- 7.6 All indoor panels will have protection of IP 54 or better, as per site conditions. All outdoor panels will have protection of IP 65 or better, as per site conditions.
- 7.7 Should conform to Indian Electricity Act and CEA safety regulations (till last amendment).
- 7.8 All the 415 or 230 volts {or voltage levels as per CEA/State regulations) AC devices / equipment like bus support insulators, circuit breakers, SPDs, Voltage Transformers (VTs) etc., mounted inside the switchgear shall be suitable for continuous operation and satisfactory performance under the following supply conditions.
 - a. Variation in supply voltage: as per CEA/State regulations
 - b. Variation in supply frequency: as per CEA/State regulations
- 7.9 The inverter output shall have the necessary rated AC surge arrestors, if required and MCB/MCCB. RCCB shall be used for successful operation of the PV system, if inverter does not have required earth fault/residual current protection.

8. **Protections**

The system should be provided with all necessary protections like earthing, Lightning, and Surge Protection, as described below:

- 8.1 Earthing Protection
- 8.1.1 The earthing shall be done in accordance with latest Standards.
- 8.1.2 Each array structure of the PV yard, Low Tension (LT) power system, earthing grid for switchyard, all electrical equipment, inverter, all junction boxes, etc. shall be grounded properly as per IS 3043-2018.
- 8.1.3 All metal casing/ shielding of the plant shall be thoroughly grounded in accordance with CEA Safety Regulation 2010. In addition, the lightning arrester/masts should also be earthed inside the array field.
- 8.1.4 Earth resistance should be as low as possible and shall never be higher than 5 ohms.
- 8.1.5 For 10 KW and above systems, separate three earth pits shall be provided for individual three earthing viz.: DC side earthing, AC side earthing and lightning arrestor earthing.

8.2 Lightning Protection

8.2.1 The SPV power plants shall be provided with lightning & over voltage protection, if required. The main aim in this protection shall be to reduce the overvoltage to a tolerable value before it reaches

the PV or other sub system components. The source of over voltage can be lightning, atmosphere disturbances etc. Lightning arrestor shall not be installed on the mounting structure.

- 8.2.2 The entire space occupying the SPV array shall be suitably protected against Lightning by deploying required number of Lightning Arrestors (LAs). Lightning protection should be provided as per NFC17-102;2011/IEC 62305 standard.
- 8.2.3 The protection against induced high-voltages shall be provided by the use of Metal Oxide Varistors (MOVs)/Franklin Rod type LA/Early streamer type LA.
- 8.2.4 The current carrying cable from lightning arrestor to the earth pit should have sufficient current carrying capacity according to IEC 62305. According to standard, the minimum requirement for a lightning protection system designed for class of LPS III is a 6 mm2 copper/ 16 mm2 aluminum or GI strip bearing size 25*3 mm thick). Separate pipe for running earth wires of Lightning Arrestor shall be used.

8.3 Surge Protection

8.3.1 Internal surge protection, wherever required, shc1II be provided. It will consist of three SPD type-11/MOV type surge arrestors connected from +ve and-ve terminals to earth.

9 Cables

- 9.1 All cables should conform to latest edition of !EC/equivalent BIS Standards along with IEC 60227/IS 694, IEC 60502/IS 1554 standards.
- 9.2 Cables should be flexible and should have good resistance to heat, cold, water, oil, abrasion etc.
- 9.3 Armored cable should be used and overall PVC type 'A' pressure extruded insulation or XLPE insulation should be there for UV protection.
- 9.4 Cables should have Multi Strand, annealed high conductivity copper conductor on DC side and copper/FRLS type Aluminum conductor on AC side. For DC cabling, multi- core cables shall not be used.
- 9.5 Cables should have operating temperature range of -10°C to +80°C and voltage rating of 660/1000 V.
- 9,6 Sizes of cables between array interconnections, array to junction boxes, junction boxes to Inverter etc. shall be so selected to keep the voltage drop less than 2% (DC Cable losses).
- 9.7 The size of each type of AC cable selected shall be based on minimum voltage drop. However; the maximum drop shall be limited to 2%.
- 9.8 The electric cables for DC systems for rated voltage of 1500 V shall conform to IS 17293:2020.
- 9.9 All cable/wires are to be routed in a RPVC pipe/ GI cable tray and suitably tagged and marked with proper manner by good quality ferule or by other means so that the cable is easily identified.
- 9.10 All cable trays including covers to be provided.
- 9.11 Thermo-plastic clamps to be used to clamp the cables and conduits, at intervals not exceeding 50 cm.
- 9.12 Size of neutral wire shall be equal to the size of phase wires, in a three phase system. 9.13 The Cable should be so selected that It should be compatible up to the life of the solar PV panels i.e. 25 years.

10 Drawings & Manuals:

- 10.1 Operation & Maintenance manual/user manual, Engineering and Electrical Drawings shall be supplied along with the power plant.
- 10.2 The manual shall include complete system details such as array lay out, schematic of the system, inverter details, working principle etc.
- 10.3 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.
- 10.4 Step by step maintenance and troubleshooting procedures shall also be given in the manuals.
- 10.5 SPD/Vendors should also educate the consumers during their AMC period.

11 Miscellaneous:

- 11.1 Connectivity: The maximum capacity for interconnection with the grid at a specific voltage level shall be as specified in the SERC regulation for Grid connectivity and norms of DISCOM and amended from time to time.
- 11.2 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.
- 11.3 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.

12 INTEGRATION OF PV POWER WITH GRID:

The output power from SPV would be fed to the inverters which converts DC produced by SPV array to AC and feeds it into the main electricity grid after synchronization. In case of grid failure, or low or high voltage, solar PV System shall be out of synchronization and shall be disconnected from the grid. Once the DG set come into service, PV system shall again be synchronized with DG supply and load requirement would be met to the extent of availability of power. 4 pole isolation of inverter output with respect to the grid / DG power connection need to be provided.

13 MONITORING:

- i) Remote Monitoring and data acquisition through Remote Monitoring System software / APP at the owner / SJVN location with latest software hardware configuration and service connectivity for online / real tie data monitoring / control complete to be supplied and operation and maintenance / control to be ensured by the bidder.
- ii) The bidder shall be obligated to push real-time plant monitoring data through open protocol at receiver location (cloud server) in XML/JSN format, preferably. Suitable provision in this regard will be intimated to bidders.

14 TRANSFORMER "IF REQUIRED" & METERING:

- a) Dry type for In Door/oil type (outdoor) relevant kVA, 11k/415 V, 50 Hz step up along with all protections, switchgears, Vacuum circuit breakers, cables etc. alongwith required civil works, as per applicable IS or IE standard (if applicable).
- b) The bidirectional electronic energy meter (0.2 S class) shall be installed for the measurement of import / Export of energy.
- c) The bidder must take approval / NOC from the concerned DISCOM for the connectivity, technical feasibility, and synchronization of SPV plant with distribution network and submit the same to SJVN before commissioning of SPV plant.
- d) Reverse power relay shall be provided to bidder (if necessary), as per the local DISCOM requirement.

15 POWER CONSUMPTION

Regarding the generated power consumption, priority need to give the internal consumption first and thereafter any excess power can be exported to grid. Finalization of tariff is not under the purview of SJVN or MNRE. Decisions of appropriate authority like DISCOM, state regulator may be followed.

16 CONNECTIVITY :

The maximum capacity for interconnection with the grid at a specific voltage level shall be as specified in the Distribution Code / Supply Code of the State and amended from time to time.

a) The maximum permissible capacity for roof top shall be as per SERC / DISCOM rules & regulations for a single net/gross metering point.

RFS for SRPD for Design, Supply, Installation, Testing and Commissioning including Warranty, Comprehensive
O&M for cumulative capacity of 18 MW Grid Connected RTS Projects (without battery storage) on Union
Government Buildings under PM Surya Ghar: Muft Bijli Yojana. (RFS No.: SJVN/RTS/2024-25/Rooftop Solar-
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- b) Utilities may be voltage levels other than above, DISCOMS may be consulted before finalization of the voltage level and specifications be made accordingly,
- c) For large PV system for commercial installation having large load, the solar power can be generated at low voltage level and stepped up to 11 kV level through the step up transformer. The transformers and associated switchgear would require to be provided by the SPV bidders (if applicable).

17 TOOLS & TACKLES AND SPARES:

- a) After completion of installation & commissioning of the power plant, necessary tools & tackles are to be provided free of cost by the bidder for maintenance purpose at site
- b) A lot of requisite spares in case of PCU / inverter comprising of a set of control logic cards, IGBT driver cards etc. Junciton Box. Fuses, MOVs / arrestors, MCCBs etc. alongwith spare set of PV modules be indicated, which shall be supplied alongiwth the equipment, if required. A minimum set of spares shall be maintained in the plant itself for the entire period of warranty and operation & Maintenance which upon its use shall be replenished.

18 DANGER BOARDS AND SIGNAGES:

Danger boards should be provided as and where necessary as per IE Act. IE rules as amended up to date. Three signage shall be provided one each at control room, solar array area and main entry. Text of the signage may be finalized in consultation with SJVN / owner.

19 FIRE EXTINGUISHERS:

The firefighting system for the proposed power plant for fire protection shall be consisting of:

- a) Portable fire extinguishers in the control room for fire caused by electrical short circuits.
- b) Stand buckets in the control room.
- c) The installation of Fire Extinguishers shall confirm to TAC regulations and BIS standards. The fire extinguishers shall be provided in the control room housing PCU as well as on the Roof or site where the PV arrays have been installed.

20 DRAWINGS & MANUALS:

- a) Two sets of Engineering, electrical drawings and Installation and O&M manuals are to be supplied. Bidders shall provide complete technical data sheets for each equipment giving details of the specifications along with make / makes alongiwth basic design of the power plant and power evacuation, synchronization along with protection equipment.
- b) Approval ISI and reputed makes for equipment be used.
- c) For complete electro mechanical works, bidders shall supply complete design, details and drawings to SJVN / owners before progressing with the installation work.

21 PLANNING AND DESIGNING:

- a) The bidder should carry out Shadow Analysis at the site and accordingly design strings and arrays layout considering optimal usage of space, material and labour. The bidder should submit the array layout drawings alongwith Shadow Analysis Report to SJVN / entity.
- b) SJVN reserves the right to modify the landscaping design, Layout and Specification of sub-systems and components at any stage as per local site conditions / requirements.
- c) The bidder shall submit preliminary drawing modification or recommendation, if any. The bidder submit three sets and soft copy of CD of final drawing before proceed with construction work.

22 DRAWINGS TO BE FURNISHED BY BIDDER AFTER AWARD OF CONTRACT:

- a) The SPD/Vendor shall furnish the following drawing after award / Intent of work:
- b) General Arrangement and dimensions layout.

- c) Schematic drawing showing the requirement of SV panel, Power conditioning Unit (s) / inverter, Junction Boxes, AC and DC distribution Board, meters etc.
- d) Itemized bill of material for complete SV plant covering all the components and associated accessories.
- e) Layout of solar Power Array.
- f) Shadow analysis of the roof.

23 SAFETY MEASURES:

The bidder shall take entire responsibility for electrical safety of the installation(s) including connectivity with the grid and follow all the safety rules & regulations applicable as per Electricity Act, 2003 and CEA guidelines etc.

24 Display Board:

The bidder has to display a board at the project site mentioning the following:

a) Plant Name, Capacity, Location, Date of Commissioning, Estimated Power Generation, Name of SIP, Funding Financial Institute.

Please refer Annexure-C for IEC standards to be mandatorily adhered.

- 25 The developers will comply with the requirements under Hazardous & other Waste (Management and Transboundary Movement) Rules, 2016, as amended from time to time.
- 26. Developer shall be responsible for safety of man, material and machines at site.

ANNEXURE - C

Grid – Connected Rooftop Solar PV System / Power Plants			
	Solar PV Modules / Panels		
IEC 61215 / IS 14286	Design Qualification and Type Approval for Crystalline Silicon		
	Terrestrial Photovoltaic (PV) Modules		
IEC 61646	Thin Film modules		
IEC 62108	Concentrator PV modules		
IS/IEC 61701	Salt Mist Corrosion Testing of Photovoltaic (PV) Modules		
IEC 61853-1 /	Photovoltaic (PV) Module Performance Testing and energy rating –		
IS 16170-1	Irradiance and temperature performance measurements, and power Rating.		
IEC 62716 / IS 16664	Photovoltaic (PV) Module – Ammonia (NH3) Corrosion Testing (As		
	per the site condition like dairies, toilets etc.)		
IS 16077: 2013 / IEC	Thin – Film terrestrial Photovoltaic (PV) Module – Design		
61646 : 2008	Qualification and type approval.		
IS / IEC 61730 – 1,2	Photovoltaic (PV) Module Safety Qualification – Part 1:		
	Dequirements for Construction Dort 2. Descriptions for Testing		
IC 17210 (n and 1) an IEC	Requirements for Construction, $Part - 2$: Requirements for Testing		
IS 17210 (part1) or IEC Photovoltaic (PV) Module – Test method for detection of pote			
TS 62804-1	induced degradation. IEC 62804 – 1: Part : Crystalline Silicon		
	SOLAR PV INVERTERS		
IEC 62109 or IS : 16221	Safety of power converters for use of photovoltaic power systems -		
	Part 1: general requirements, and safety of power converters for use		
	in photovoltaic power system.		
	Part 2 : Particular requirements for inverters. Safety compliance		
	(Protection degree IP 65 or better for outdoor mounting, IP 54 or		
	better for indoor mounting)		
IS / IEC 61683 latest (as	Photovoltaic System - Power Conditioners : Procedure for		
applicable)	Measuring Efficiency (10%, 25%, 50%, 75% & 90% Loading		
	Conditions(
IEC 60068-2 / IEC 62093	Environmental Testing of PV System - Power Conditions and		
(as applicable)	Inverters		
IEC 62116:2014 / IS	Utility – interconnected photovoltaic inverters – Testing procedure		
16169	of islanding prevention measures.		
IEC 62103/62109-1 &2	Electrical Safety		
IEC 6100-6-2,IEC 61000-	Electromagnetic Compatibility(EMC)		
6-4 and other relevant part of IEC 61000			
0&M for cumulative capacity of 18	stallation, Testing and Commissioning including Warranty, Comprehensive 3 MW Grid Connected RTS Projects (without battery storage) on Union ya Ghar: Muft Bijli Yojana. (RFS No.: SJVN/RTS/2024-25/Rooftop Solar-		

	FUSES
IS / IEC 60947 (Part1, 2 & 3), EN 50521	 General Safety requirements for connectors, switches, circuit breakers (AC/DC): 1) Low – voltage Switchgear and Control – gear, Part 1: General rules 2) Low – Voltage – Switchgear and Control – gear, Part : 2 Circuit Breakers. 3) Low – Voltage – Switchgear and Control – gear, Part : 3 Switches disconnectors switch – disconnectors and fuse – combinations units. 4) EN 50521 : Connectors for photovoltaic system – Safety requirements and tests
IS / IEC 60269 - 6	Lo – voltage fuse – Part 6 : Supplementary requirements for fuse Links for the protection of Solar photovoltaic energy system
	Solar PV Roof Mounting Structure
IS 2062 / IS 4759 / AA6063 T6	Material for the Structure mounting
	Surge Arrestors
BFC 17-102:2011 / NFC 102:2011 / IEC 62305	Lightening Protection Standard
IEC 60364-5-53 / IS 15086-5 (SPD) IEC 61643 – 11: 2011	Electrical installations of Buildings – Part 5-53: Selection and erection of electric equipment – Isolation, Switching and control Low –voltage surge protective devices – Part 11: Surge protective devices connected to low – voltage power systems – Requirements and test methods.
	Cables
IEC 60227 / IS 694, IEC 60502 / IS 1554 (Part 1 & 2) / IEC 69947 (as applicable) IS 17293:2020	General test and measuring method for PVC (Polyvinyl Chloride)insulated cables (for working voltage up to and including 1100 V,and resistant for outdoor installation)Electric Cable for Photovoltaic Systems for Rated Voltage 1500 VDC
Earthing / Lightning	
IEC 62561 / IEC 60634 /	IEC 62561-1: Lightning protection system components (LPSC) -

O&M for cumulative capacity of 18 MW Grid Connected RTS Projects (without battery storage) on Union Government Buildings under PM Surya Ghar: Muft Bijli Yojana. (RFS No.: SJVN/RTS/2024-25/Rooftop Solar-5, TSC No. SJVN-2024-TN000015)

IEC 60634 Series	Part : Requirements for connection components
(Chemical earthing) as	
applicable)	IEC 62561-2: Lightning protection system components (LPSC) -
	Part 2 : Requirements conductors and earth electrodes.
	IEC 62561-7: Lightning protection system components (LPSC) -
	Part 7: Requirements for earthing enhancing compounds
	Junction Boxes
	Junction Doxes
IEC 60529	Junction Boxes and solar panel terminal boxes shall be of the thermos
	– plastic type with IP 65 or better protection for outdoor use, and IP
	54 or better protection for indoor use.

<u>ANNEXURE – E</u>

CHECKLIST FOR COMPLETION

Name of successful bidder:

Contracted Capacity (in AC):_____ kW

.:_____

Letter of Award letter No.and dt :

Name of Beneficiary/Entity:

Name of Ministry : -- -----

Installed Capacity (in DC):kWp

Dogumenta	Vec/Ne	Daga No
Documents	1 65/100	Page No.
Copy of Project Inspection report		
along with the required documents		
as per SJVN format		
Copy of CEIG Certificate		
Copy of Beneficiary/client		
Completion certificate as per		
Annexure (Mandatory when date of		
inspection is after date of		
commissioning)		
Solar PV plant Insurance Cover		
Net Metering Installation		
report/Intimation to DISCOM /NOC		
from DISCOM regarding plant		
connectivity approval		
JMR (Generation Data Certificate)		
from the date of Commissioning as		
certified by the client organization/		
rooftop owner till the date inspection		
will also be needed for declaring the		
commissioning of the Rooftop Solar		
Power Plant if the inspection of the		
plant is carried out after the SCD.		
	along withthe required documents as per SJVN format Copy of CEIG Certificate Copy of Beneficiary/client Completion certificate as per Annexure (Mandatory when date of inspection is after date of commissioning) Solar PV plant Insurance Cover Net Metering Installation report/Intimation to DISCOM /NOC from DISCOM regarding plant connectivity approval JMR (Generation Data Certificate) from the date of Commissioning as certified by the client organization/ rooftop owner till the date inspection will also be needed for declaring the commissioning of the Rooftop Solar Power Plant if the inspection of the	Copy of Project Inspection report along withthe required documents as per SJVN formatCopy of CEIG CertificateCopy of Beneficiary/client Completion certificate as per Annexure (Mandatory when date of inspection is after date of commissioning)Solar PV plant Insurance CoverNet Metering Installation report/Intimation to DISCOM /NOC from DISCOM regarding plant connectivity approvalJMR (Generation Data Certificate) from the date of Commissioning as certified by the client organization/ rooftop owner till the date inspection will also be needed for declaring the commissioning of the Rooftop Solar Power Plant if the inspection of the

Signature(Authorized Signatory)

RFS for SRPD for Design, Supply, Installation, Testing and Commissioning including Warranty, Comprehensive
O&M for cumulative capacity of 18 MW Grid Connected RTS Projects (without battery storage) on Union
Government Buildings under PM Surya Ghar: Muft Bijli Yojana. (RFS No.: SJVN/RTS/2024-25/Rooftop Solar-
5, TSC No. SJVN-2024-TN000015)Pa

Page 120 of 137

ANNEXURE - F

<u>BENEFICIARY COMMISSIONING/COMPLETION REPORT FOR GRID</u> <u>CONNECTED SOLAR PHOTOVOLTAIC POWER PLANT</u>

Certified that a	a Grid Connected	SPV Power Plant of	k	Wp capacity h	as been
installed	and	commissioned	at	the	
	site				
				••	District
		of		which h	as been
installed	and	commissioned	l	by	
	M/s				
			•••••		on
		The system is	s as per SJV	N RfS No:	dt.
and its subseq	uent amendment	and clarifications spec	ifications.	The system ha	as been
checked for its	performance on		and the pl	lant made opera	ational.

Signature of client's

SJVN/Representative,

Date & Seal

RFS for SRPD for Design, Supply, Installation, Testing and Commissioning including Warranty, Comprehensive
O&M for cumulative capacity of 18 MW Grid Connected RTS Projects (without battery storage) on Union
Government Buildings under PM Surya Ghar: Muft Bijli Yojana. (RFS No.: SJVN/RTS/2024-25/Rooftop Solar-
5, TSC No. SJVN-2024-TN000015)Pa

Page 121 of 137

ANNEXURE-G

INTIMATION TO DISCOM FOR IMPLEMENTATION OF GRID CONNECTED

ROOFTOP SOLAR PV PLANT UNDER PM SURYA GHAR: MUFT BIJLI YOGANA

To,

Date:

(Designated Officer, DISCOM)

1.	Name of SPD/Implementing		
	Agency		
2	Name of the Consumer*		
Site D	Details*		
3	Address of the Rooftop	H No:	
	Project Site:*	Street Name:	
		Village Name:	
		District Name:	
		State:	
		Pin Code:	
4	Phone / Mobile no. *		
5	Email Id:		
6	Electricity Consumer K. No. *		
7 Categor y)* ⊙Residential Commercial Industrial			
		⊙ Educational Government Others, Specify	
8	Installed Plant Capacity DC (kWp)*		
9	Contracted capacity AC (kW)		
10	Connected load (kW)*		
11	Voltage level at interconnection*	\odot 415 V \odot 11 kV \odot above 11 kV	
12	Nearest Transformer Details	Location: Capacity:	
13	Details of Inverter		
	with Anti-	Make:	
	IslandingProtection*	Capacity:	
	Phase (Φ) :	⊙ Single phase 3-Phase	

RFS for SRPD for Design, Supply, Installation, Testing and Commissioning including Warranty, Comprehensive O&M for cumulative capacity of 18 MW Grid Connected RTS Projects (without battery storage) on Union Government Buildings under PM Surya Ghar: Muft Bijli Yojana. (RFS No.: SJVN/RTS/2024-25/Rooftop Solar-5, TSC No. SJVN-2024-TN000015)

Page 122 of 137

	Galvanic Isolation	⊙ Inside In	verter	Outside Inverter
14	Both AC and DC compone	ents of the SP	V powe	r plants Earthed*:
15	CEIG Inspection required*	⊙Yes	⊙ No	0
16	If, Yes, Inspection date * (Attach copy of CEIG			

17	Bank Account details	Account	
		No.	Branch
		Bank	
18	Date of Grid Synchronization*		
19.	Net metering and	Applied on:	
	gridconnectivity	Fees Deposited On:	
	(Attach acknowledgment		
	From DISCOM, if		
	received)		

*****To be provided mandatorily

It is certified that the information furnished above is true to the best of my knowledge.

Consumer / Authorized Signatory of Implementing Agency on behalf of consumer

Copy To:

Engineer In-charge, SJVN, New Delhi

Annexure-H

	Pro	• •	Report under l Dated:	RfS No:	
Date of	f Inspection:				
А	Name of the Solar	Power Develop	er:		
3	Name of the Building Department / Organization:				
С	Name of the Minis	try:			
D	Address of SPV po	ower plant instal	lled:		
Е	Contracted Capacity AC(kW)				
F	Meter Consumer N attached)	Jumber:	(El	ectricity bil	
S. No	Compo	nent	Detai	ls	Page No.
1	Installed Project ca	apacity in			
1	(kWp)				
2	Whether the syster	n is installed			
	in shadow free area or not? If not		YES /NO		
	mention the details	s.			
3			1- Attach Invoice copy		
	PV modules		of modules		
				very	
			challan of n	nodules	
4	Type, Make and ye	ear of			
4	manufacturing of N	Aodules			
	Flash Test Report	for all modules			
	(rated output powe	er of any	VECNO		
5	supplied module sl	nall have	YES/NO (Documents attached)		
	positive tolerance	in range of 5			
	watt)	e			
	PV module qualified	cation test		1	
	standard		Certificate Nur		
6	(IEC 61215/IS142	86 / IEC	Certificate issued by: Certificate issued on: Certificate valid up to:		
	61730 / IEC 61701	/IS 61701 (for			
	highly corrosive at			u up io.	
7	Wattage of each m				
1	Total No. of modu	les			
8	Integrated bypass	diodes	YES/NO		
9	Representative I-V	curve of	Documents attached		
	modules @STC				
(Sig	nature – SPD's	(Signature	e- client's	(Sion	ature - SJVN's
· -	epresentative)	represen			tative /Inspector)

10	Module RF identification tag (Inside /outside lamination)	YES/NO	
11	Whether the modules contain information about company name, serial no and year manufacturing etc.	YES/NO (RFID information attache	d)
12	Warranty Certificates (Material Warranty/ Performance Warranty) signed and stamped by bidders	Signed and Stampe copy by bidder (Documents attache	
13	Protection class of Junction box of modules (IP- 65)	YES/NO	
	ARRA	Y STRUCTURE	
14	Material of structure	Hot dip galvanized Steel (IS 2062: 199 Aluminium (Check Material ter report as per IS)	2)/
15	Galvanisation of mounting structure as per IS 4759	YES/NO (check test report as IS)	s per
16	Galvanisation thickness of mounting structure	1mm 2. Galvanisation report as per YES/NO	on test
17	Wind load calculation sheet for wind zone of the location	Designed to sustain speed up to kmph	
18	MMS Design certified by a recognized Lab/ Institution	 YES/NO Attach Doct 	ument
19	Material of fasteners (Stainless steel)	YES/NO	
20	Load bearing capacity of the roo	f OK / Not OK (visual observation))
21	Minimum clearance of the structure from the roof	mm	
· •	ature – Bidder's presentative) (Signature- cl	ient's representative)	(Signature - SJVN's

Page 125 of 137

		PCU / 1	Inverter		
22		echnical Particulars verter as per RfS	YES	S/NO	
23	No. of Inverte	of each inverter & ers (AC capacity of verter)			
24	inverters in	ated wattage of all Plant (Total AC ating)			
25	PCU	ntegrated in the J/inverter	YES	S/NO	
26		nanufacturing of verters			
27		vices, inverter data as per RfS	YES	S/NO	
28	Location	Enclosure (IP) and n of Inverters por/indoor)			
29	Phase of	of inverter	3 phase	e / 1 phase	
30		olar PV plant is ized with grid	YES	S/NO	
31	61683/IS 61 2(1,	ndard codes IEC 683, IEC60068- 2, 14, 30) lent BIS Std.	Certifica Certifica	ate Number: te issued by: te issued on: e valid up to:	
32	Anti- Isla	nding (IEEE 41/IEC 62116)	Certifica Number: issued Certificat on: Certif	ate Certificate by:	
33		bers of installed verters	up to:	·	
34	GTP of	DCDB /Junction JB as per RfS	Boxes (II req	uirea)	
54				S/NO	
35	IP prote	ction level	(Check Te	P - est report as rIS)	
36	Bus bar mat	erial of DCDB	Copper, YES/NO,		
37	MCB/MC	CB installed	YES/NO, Rating, Data sheet attached		
38	Surge arrester,	SPDS		Rating, Data attached	
	ture – Bidder's presentative)	(Signature- cl representati		(Signature -	SJVN's Inspector)

39	Material of sheet and thickness	GRP/FRP/Power coated aluminium /Cast Aluminium alloy
40	Test report of DCDB	Attached (As per IS)
41	Height of junction box	5 feet or more (YES/NO)
42	Glands type	Single / Double compression gland
43	JB Earthing provision	YES/NO
	•	PANEL BOARD/ LT Panel
44	All switches and the circuit breakers, connectors standards IEC 60947, part I, II and III/ IS60947 part I, II and III)	YES/NO , (check Rating , Data sheet)
45	IP protection (Minimum 54 or better)	YES/No
46	Material of LT panel and its details	
47	Change over switch	YES/NO,
48	Proper Earthing of ACDB (As per IS 3043-1987)	YES/NO
49	Surge protections	YES/NO (check Rating, Datasheet)
50	Height of LT panel form ground	Meters
51	Test report of ACDB as per IE Rules	YES/NO
	Lighte	ning arrester
52	Proper Lighting arrester installed (As per NFC 17-102:2011/ IEC 62561)	YES /NO
	(Cables
53	Meets IEC 60227/IS 694, IEC 60502/IS1554 standards (or other as applicable)	YES/NO, Certificate Number: Certificate issued by: Certificate issued on: Certificate valid up to:
54	Cable dimension and Material 1- Modules to inverters, Inverter to LT panels,	1 sqmm Material - 2 sqmm, Material -
55	Voltage drop in DC cable (Modules to inverters)	%,
56	Voltage drop in AC cable (inverter to LT panel or T/F)	%,
(5		gnature- client's (Signature - SJVN's epresentative) Inspector)

Page 127 of 137

57	Cable Routing/ Marking (GI cable tray and suitably tagged and marked with proper manner by good quality ferrule)	YES/NO		
	Solar Pl	ant Monitoring		
58	Solar Irradiance sensor mounted on Plane of the array.	YES/NO		
59	Irradiance Sensor calibration certificate	Certificate Number: Certificate issued by: Certificate issued on: Certificate valid up to:		
60	Temperature sensor	YES/NO,		
61	Online Monitoring mechanism for the installed system	YES/NO		
	Transfor	mer (If required)	1
62	Transformer rating, Type etc.			
		scellaneous		1
63	Earthing and protections (Array Structure, PCU, ACDB and DCDB) IS:3043-1987	OK/Not OK		
64	Earthing Resistance less than 5 ohms	YES/NO, valuesohms		
65	NOC from the Concerned DISCOM for the connectivity, technical feasibility, and synchronization of SPV plant	YES/NO, attac mandatory)	ched (not	
66	Bidirectional meters installed (for net metering)	YES/NO, Rating, Data sheet		
67	Accuracy and burden of Meters			
68	Danger boards and signages	YES/NO		
69	Fire extinguishers & Sand Buckets	YES/NO		
70	Tools & Tackles and spares	OK/Not OK		
71	O&M manual available at site	YES/NO		
72	Display Board	YES/NO		
(Signature – Bidder's (Signatur		are- client's sentative)	(Signature	- SJVN's Inspector)

Page 128 of 137

Drawings at Site						
73	Layout of solar Powe built drawing (A3 Sh	•	Check and Attach			
74	Shadow analysis of the roof		Check and Attach			
75	Single line diagram o (SLD) A 3 sheet)		Check and Attach			
76	Structural drawing ald foundation details for structure (A3 Sheet)		Check and Attach			
77	Itemized bill of mater complete SPV plant c the components and a accessories. The coun manufacturing needs mentioned for all maj components like mod inverters, cables, mou structure, switchgear, system etc.	overing all associated atry of to be or ules, unting	Check and Attach			
78	Soft copy in CD of final drawing		Check and Attach			
79	Photo Graphs of sites		Check and Attach			
80	Any specific problem	(s)				
81	Recommendations					
Representative		ature- client's (S resentative)		gnature - SJVN's Inspector)		

Page 129 of 137

ANNEXURE-I

Format for Performance Ratio (PR)

"Performance Ratio" (PR) means the ratio of Actual plant output versus installed plant capacity at any instance with respect to the Solar Irradiance measured.

 $PR = \frac{\text{Energy Measured (kWh)}}{\text{Installed capacity in kWp} \times \text{Measured Solar irradiance}(kWh/m2)}$

Parameters	Input value	Remarks, if any
Date and Time for PR measurement		
A) Installed Plant Capacity in kWp		
B) Energy Measured output in kWh		
C) Measured Solar irradiance in kWW/m ²		
Performance Ratio (%): (B/AxC)x100		
Date of Installation/ Completion of the		
Rooftop Solar PV Project to be certified by		
client 's Representative		

RFS for SRPD for Design, Supply, Installation, Testing and Commissioning including Warranty, Comprehensive O&M for cumulative capacity of 18 MW Grid Connected RTS Projects (without battery storage) on Union Government Buildings under PM Surya Ghar: Muft Bijli Yojana. (RFS No.: SJVN/RTS/2024-25/Rooftop Solar-5, TSC No. SJVN-2024-TN000015)

Page 130 of 137

Declaration:

It is to certify that all the information given above is true and correct to best of our knowledge. The plant is found to be installed as per the technical specifications mentioned in SJVN's RfS No.:

Signature of Inspecting Officer, Date & Name

Signature of Representative of Solar Power Developer(SPD), Date & Seal

Signature of client's Representative,

Date & Seal – Conforming installation of rooftop solar plant at their building and its satisfactory operation

RFS for SRPD for Design, Supply, Installation, Testing and Commissioning including Warranty, Comprehensive O&M for cumulative capacity of 18 MW Grid Connected RTS Projects (without battery storage) on Union Government Buildings under PM Surya Ghar: Muft Bijli Yojana. (RFS No.: SJVN/RTS/2024-25/Rooftop Solar-5, TSC No. SJVN-2024-TN000015)

Page 131 of 137

<u>Annexure - J</u>

SPECIAL INSTRUCTIONS TO BIDDERS FOR e-TENDERING

GENERAL

The Special Instructions (for e-Tendering) supplement 'Instructions to Bidders', as given in these RfS Documents. Submission of Online Bids is mandatory for this RfS.

e-Tendering is a new methodology for conducting Public Procurement in a transparent and secured manner. Now, the Government of India has made e-Tendering mandatory. Suppliers/ SPD/Vendors will be the biggest beneficiaries of this new system of procurement. For conducting electronic tendering, *SJVN Limited (SJVN)* has adopted a secured and user friendly e-tender system enabling bidders to Search, View, Download tender document(s) directly from the e-tendering portal of M/s Electronic Tender (India) Pvt. Limited *https://www.bharat-electronictender.com* through ISN-ETS. This portal is based on the world's most 'secure' and 'user friendly' software from Electronic Tender[®]. A portal built using Electronic Tender's software is also referred to as Electronic Tender System[®] (ETS). The bidder shall require to pay annual registration and Electronic Tender Service Fee as applicable. Benefits to Suppliers are outlined on the Home-page of the portal.

INSTRUCTIONS

Tender Bidding Methodology:

Sealed Bid System

Single Stage Two Envelope

Auction

The sealed bid system would be followed by an 'e-Reverse Auction' (if applicable)

Broad Outline of Activities from Bidder's Perspective:

- 1) Procure a Class III Digital Signing Certificate (DSC).
- 2) Register on Electronic Tender System® (ETS)
- 3) Create Marketing Authorities (MAs), Users and assign roles on ETS. It is mandatory to create at least one MA
- 4) View Notice Inviting Tender (NIT) on ETS
- 5) For this tender -- Assign Tender Search Code (TSC) to a MA

Download Official Copy of Tender Documents from ETS.

Note: Official copy of Tender Documents is distinct from downloading 'Free Copy of Tender Documents'. To participate in a tender, it is mandatory to procure official copy of Tender Documents for that tender

- 6) Clarification to Tender Documents on ETS a. Query to SJVN (Optional)
 - b. View response to queries posted by SJVN
- 7) Bid-Submission on ETS
- 8) Respond to SJVN Post-TOE queries
- 9) Participate in e-Reverse Auction if invited

For participating in this tender online, the following instructions are to be read carefully. These instructions are supplemented with more detailed guidelines on the relevant screens of the ETS.

Digital Certificates

For integrity of data and authenticity/ non-repudiation of electronic records, and to be compliant with IT Act 2000, it is necessary for each user to have a Digital Certificate (DC), also referred to as Digital Signature Certificate (DSC), of Class III, issued by a Certifying Authority (CA) licensed by Controller of Certifying Authorities (CCA) [refer*http://www.cca.gov.in*].

Registration

To use the Electronic Tender® portal *https://www.bharat-electronictender.com*, vendors need to register on the portal. Registration of each organization is to be done by one of its senior persons who will be the main person coordinating for the e-tendering activities. In ETS terminology, this person will be referred to as the Super User (SU) of that organization. For further details, please visit the website/ portal, and click on the 'Supplier Organization' link under 'Registration' (on the Home Page), and follow further instructions as given on the site. Pay Annual Registration and Electronic Tender Service Fee as applicable.

After successful submission of Registration details and payment of Annual Registration Fee, please contact ISN-ETS Helpdesk (as given below), to get your registration accepted/ activated.

Important Note:

- Interested bidders have to download official copy of the RfS & other documents after login into the e-tendering Portal of ISN-ETS *https://www.bharat-electronictender.com*. If the official copy of the documents is not downloaded from e- tendering Portal of ISN-ETS within the specified period of downloading of RfS and other documents, bidder will not be able to participate in the tender.
- 2) To minimize teething problems during the use of ETS (including the Registration process), it is recommended that the user should peruse the instructions given under 'ETS User- Guidance Centre' located on ETS Home Page, including instructions for timely registration on ETS. The instructions relating to 'Essential Computer Security Settings for Use of ETS' and 'Important Functionality Checks' should be especially taken into cognizance.

Please note that even after acceptance of your registration by the Service Provider, to respond to a tender you will also require time to complete activities related to your organization, such as creation of users, assigning roles to them, etc.

ISN-ETS/ Helpdesk	
	Customer Support: +91-124-4229071, 4229072
Telephone/ Mobile	(From 1000 HRS to 1800 HRS on all Working Days i.e.
	Monday toFriday except Government Holidays)
Email-ID	support@isn-ets.com [Please mark CC:
	support@electronictender.com]

Some Bidding Related Information for this Tender (Sealed Bid)

The entire bid-submission would be online on ETS (unless specified for Offline Submissions). Broad outline of submissions are as follows:

- > Submission of Bid-Parts as applicable
 - Envelope I (Technical-Bid)
 - Envelope II (Financial-Bid)

Submission of digitally signed copy of Tender Documents/ Addendum

In addition to the above, the bidders are required to submit certain documents physically offline also as per Clause 3.14.1 of the RfS, failing which the technical bids will not be opened.

Note: The Bidder should also upload the scanned copies of all the above mentioned original documents as Bid-Annexures during Online Bid-Submission.

Internet Connectivity

If bidders are unable to access ISN-ETS's e-tender portal or Bid Documents, the bidders may please check whether they are using proxy to connect to internet or their PC is behind any firewall and may contact their system administrator to enable connectivity. Please note that Port SSL/ 443 should be enabled on proxy/firewall for HTTPS connectivity. Dial-up/ Broad and internet connectivity without Proxy settings is another option.

SPECIAL NOTE ON SECURITY AND TRANSPARENCY OF BIDS

Security related functionality has been rigorously implemented in ETS in a multidimensional manner. Starting with 'Acceptance of Registration by the Service Provider', provision for security has been made at various stages in Electronic Tender's software. Specifically, for Bid Submission, some security related aspects are outlined below:

As part of the Electronic Encrypted[®] functionality, the contents of both the 'Electronic Forms[®]' and the 'Main-Bid' are securely encrypted using a Pass-Phrase created by the Bidder himself. Unlike a 'password', a Pass-Phrase can be a multi-word sentence with spaces between words (e.g. I love this World). A Pass-Phrase is easier to remember, and more difficult to break. It is mandatory that a separate Pass-Phrase be created for each Bid-Part. This method of bid- encryption does not have the security and data-integrity related vulnerabilities which are inherent in e-tendering systems which use

Public-Key of the specified officer of a Buyer organization for bid-encryption. Bid-encryption in ETS is such that the Bids cannot be decrypted before the Public Online Tender Opening Event (TOE), even if there is connivance between the concerned tender-opening officers of the Buyer organization and the personnel of e-tendering service provider.

<u>CAUTION:</u> All bidders must fill Electronic Forms[®] for each bid-part sincerely and carefully, and avoid any discrepancy between information given in the Electronic Forms[®] and the corresponding Main-Bid. For transparency, the information submitted by a bidder in the Electronic Forms[®] is made available to other bidders during the Online Public TOE. If it is found during the Online Public TOE that a bidder has not filled in the complete information inthe Electronic Forms[®], the TOE officer may make available for downloading the corresponding Main-Bid of that bidder at the risk of the bidder.

If variation is noted between the information contained in the Electronic Forms^{\mathbb{R}} and the 'Main-Bid', the contents of the Electronic Forms^{\mathbb{R}} shall prevail.

In case of any discrepancy between the values mentioned in figures and in words, the value mentioned in words will prevail.

The bidder shall make sure that the Pass-Phrase to decrypt the relevant Bid-Part is submitted into the 'Time Locked Electronic Key Box (EKB)' after the deadline of Bid Submission, and before the commencement of the Online TOE of Technical Bid. The process of submission of this Pass-Phrase in the 'Time Locked Electronic Key Box' is done in secure manner by first encrypting this Pass-Phrase with the designated keys provided by SJVN.

Additionally, the bidder shall make sure that the Pass-Phrase to decrypt the relevant Bid-Part is submitted to SJVN in a sealed envelope before the start date and time of the Tender Opening Event (TOE).

There is an additional protection with SSL Encryption during transit from the client-end computer of a Supplier organization to the e-Tendering Server/ Portal

PUBLIC ONLINE TENDER OPENING EVENT (TOE)

ETS offers a unique facility for 'Public Online Tender Opening Event (TOE)'. Tender Opening Officers, as well as, authorized representatives of bidders can simultaneously attend the Public Online Tender Opening Event (TOE) from the comfort of their offices.

Alternatively, one/ two duly authorized representative(s) of bidders (i.e., Supplier organization) are requested to carry a Laptop with Wireless Internet Connectivity, if they wish to come to SJVN's office for the Public Online TOE, if applicable for the RfS.

Every legal requirement for a transparent and secure 'Public Online Tender Opening Event (TOE)', including digital counter-signing of each opened bid by the authorized TOE- officer(s) in the simultaneous online presence of the participating bidders' representatives, has been implemented on ETS.

As soon as a Bid is decrypted with the corresponding 'Pass-Phrase' as submitted by the bidder himself during the TOE itself, or as per alternative methods prescribed in the Tender Documents, salient points of the Bids (as identified by the Buyer organization) are simultaneously made available for

downloading by all participating bidders. The tedium of taking notes during a manual 'Tender Opening Event' is therefore replaced with this superior and convenient form of 'Public Online Tender Opening Event (TOE)'.

ETS has a unique facility of 'Online Comparison Chart' which is dynamically updated as each online bid is opened. The format of the chart is based on inputs provided by the Buyer for each Bid-Part of a tender. The information in the Comparison Chart is based on the data submitted by the Bidders. A detailed Technical and/ or Financial Comparison Chart enhances Transparency. Detailed instructions are given on relevant screens.

ETS has a unique facility of a detailed report titled 'Minutes of Online Tender Opening Event (TOE)' covering all important activities of the 'Online Tender Opening Event (TOE)'. This is available to all participating bidders for 'Viewing/ Downloading', as per the NIT configured by the bidding agency.

There are many more facilities and features on ETS. For a particular tender, the screens viewed by a Supplier will depend upon the options selected by the concerned Buyer.

OTHER INSTRUCTIONS

For further instructions, the SPD/Vendor should visit the home-page of the portal <u>https://www.bharat-</u> <u>electronictender.com</u>, and go to the User-Guidance Center

The help information provided through 'ETS User-Guidance Center' is available in three categories – Users intending to Register/First-Time Users, Logged-in users of Buyer organizations, and Logged-in users of Supplier organizations. Various links (including links for User Manuals) are provided under each of the three categories.

<u>Important Note:</u> It is strongly recommended that all authorized users of Supplier organizations should thoroughly peruse the information provided under the relevant links, and take appropriate action. This will prevent hiccups, and minimize teething problems during the use of ETS.

SEVEN CRITICAL DO'S AND DON'T S FOR BIDDERS

Specifically, for Supplier organizations, the following 'SEVEN KEY INSTRUCTIONS for BIDDERS' must be assiduously adhered to:

- 1) Obtain individual Digital Signing Certificate (DSC or DC) of Class III well in advance of your tender submission deadline on ETS.
- 2) Register your organization on ETS well in advance of the important deadlines for your first tender on ETS viz 'Date and Time of Closure of Procurement of Tender Documents' and 'Last Date and Time of Receipt of Bids'. Please note that even after acceptance of your registration by the Service Provider, to respond to a tender you will also require time to complete activities related to your organization, such as creation of -- Marketing Authority (MA) [ie a department within the Supplier/Bidder Organization responsible for responding to tenders], users for one or more such MAs, assigning roles to them, etc. It is mandatory to create at least one MA. This unique feature of creating an MA enhances security and accountability within the Supplier/ Bidder Organization
- 3) Get your organization's concerned executives trained on ETS well in advance of your first tender submission deadline on ETS.

- 4) For responding to any particular tender, the tender (i.e. its Tender Search Code or TSC) has to be assigned to an MA. Further, an 'Official Copy of Tender Documents' should be procured/ downloaded before the expiry of Date and Time of Closure of Procurement of Tender Documents. <u>Note</u>: Official copy of Tender Documents is distinct from downloading 'Free Copy of Tender Documents'. Official copy of Tender Documents is the equivalent of procuring physical copy of Tender Documents with official receipt in the paper-based manual tendering system.
- 5) Submit your bids well in advance of tender submission deadline on ETS (There could be last minute problems due to internet timeout, breakdown, etc.) Note: Bid-submission in ETS can consist of submission of multiple bid- components, which vary depending upon the situation and requirements of the Buyer. Successful receipt of a bid in an e-tendering scenario takes place if all the required bid- components are successfully 'received and validated' in the system (ETS) within the scheduled date and time of closure of bidding (On some ETS screens, this is also referred to as 'Last Date and Time of Receipt of Bids'). ETS/ Service Provider is not responsible for what happens at an end-user's end, or while a submission made by an end-user is in transit, until the submission is successfully 'received and validated' in ETS. When a bid-component receipt and validation is successful, it is recorded in the ETS Audit Trail Report, which is generated by ETS. In case of any uncertainty, the application audit trail generated by ETS (ETS Audit Trail Report) shall be the final record/evidence for reference regarding the 'successful bid receipt'.
- 6) It is the responsibility of each bidder to remember and securely store the Pass-Phrase for each Bid-Part submitted by that bidder. In the event of a bidder forgetting the Pass-Phrase before the expiry of deadline for Bid-Submission, facility is provided to the bidder to 'Annul Previous Submission' from the Bid- Submission Overview page and start afresh with new Pass-Phrase(s) and if the bids are not opened with the pass-phrase submitted by bidder, SJVN may ask for re- submission/ clarification for correct pass-phrase. If bidder fails to submit correct pass- phrase immediately as requested by SJVN, the Document Fee, if applicable, shall be forfeited and bid shall not be opened, and EMD shall be refunded. No request on this account shall be entertained by SJVN.
- 7) ETS will make your bid available for opening during the Online Public Tender Opening Event (TOE) 'ONLY IF' the status pertaining Overall Bid-Submission is 'COMPLETE'. For the purpose of record, the bidder can generate and save a copy of 'Final Submission Receipt'. This receipt can be generated from 'Bid- Submission Overview Page' only if the status pertaining overall Bid-Submission'is 'COMPLETE'.

NOTE:

While the first three instructions mentioned above are especially relevant to first-time users of ETS, the fourth, fifth, sixth and seventh instructions are relevant at all times.