

**FORMS & FORMATS FOR BID
SUBMISSION**

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).

We also confirm that we including our Ultimate Parent Company/ Parent Company/ Affiliate/ Group Companies directly or indirectly have not submitted response to RfS for more than cumulative capacity of kW in the state of, including this response to RfS. We are submitting application for the development of following Project(s)/state(s): -

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

1. We give our unconditional acceptance to the RfS, dated[Insert date in 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 as per 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 name
Power 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 Consortium in favour of the Lead Member)

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

KNOW ALL MEN BY THESE PRESENTS THAT M/s having its registered office at and M/s having its registered office at (Insert names and registered offices of all Members of the Consortium) the Members of Consortium have formed a Bidding Consortium named (insert name of the Consortium, if finalized) (hereinafter called the ‘Consortium’) vide Consortium Agreement dated and having agreed to appoint M/s as the Lead Member of the said Consortium do hereby constitute, nominate and appoint M/s a company incorporated under the laws of and having its Registered/Head Office at as our duly constituted lawful Attorney (hereinafter called as Lead Member) to exercise all or any of the powers for and on behalf of the Consortium in regard to submission of the response to RFS No.

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:

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 states/UT of Under Tariff –Based Competitive Bidding”** under **PM Surya Ghar: Muft Bijli Yojana**” of the *cumulative capacity* kW [*Insert cumulative Bid capacity/ Contracted Capacity proposed*] for supply of power there from on long term basis, in response to the RfS No.....dated..... issued by SJVN Limited (hereinafter referred to as SJVN) and SJVN considering such response to the RfS of.....[*Insert the name of the Bidder*] as per the terms of the RfS, the [*Insert name & address of bank*] hereby agrees unequivocally, irrevocably and unconditionally to pay to SJVN at [*Insert Name of the Place from the address of SJVN*] forthwith without demur on demand in writing from SJVN or any Officer authorized by it in this behalf, any amount upto and not exceeding Rupees [*Insert amount not less than that derived on the basis of Rs. 1000 per kW of quoted Bid capacity*], on behalf of M/s [*Insert name of the Bidder*].

This guarantee shall be valid and binding on this Bank up to and including [*insert date of validity in accordance with Clause No. 3.10 of this RfS*] and shall not be terminable by notice or any change in the constitution of the Bank or the term of contract or 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.....[*insert date of validity in accordance with Clause No. 3.10 of this RfS*]. SJVN shall be entitled to invoke this Guarantee till.....[*insert date of validity in accordance with Clause No. 3.10 of this RfS*].

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 or any 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.

Notwithstanding anything contained hereinabove, our liability under this Guarantee is restricted to INR (Indian Rupees Only) and it shall remain in force until[Date to be inserted on the basis of Clause No. 3.10 of this RfS].

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,

- 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 Renewable Energy Projects.
- 2) At the request of M/s....., on behalf of..... (*insert name of the Bidder*), this Payment on Order Instrument (POI) is issued for an amount of Rs. (Rupees (in words)). This Payment on Order Instrument comes into force immediately.
- 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 the cumulative capacity ofkW [*Insert Bid capacity / Contracted Capacity proposed*] for supply of power there from on long term basis, in response to the RfS No. dated issued by SJVN Limited (hereinafter referred to as SJVN) and SJVN considering such response to the RfS of..... [*insert the name of the Bidder*] as per the terms of the RfS, the [*insert name & address of IREDA/PFC/REC*] hereby agrees unequivocally, irrevocably and unconditionally to pay to SJVN at [*Insert Name of the Place from the address of SJVN*] forthwith without demur on demand in writing from SJVN or any Officer authorized by it in this behalf, any amount upto and not exceeding Rupees [*Insert amount not less than that derived on the basis of Rs.1000-per kW of quoted Bid capacity, on behalf of M/s [Insert name of the Bidder]*].
- 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:

In consideration of the.....[Insert name of the Bidder] (hereinafter referred to as 'selected Solar Power Developer' or 'SPD') submitting the response to RfS inter alia for [Insert title of the RfS] of the capacity of kW, at [Insert name of the place], for supply of power there from on long term basis, in response to the RfS dated..... issued by SJVN Limited (hereinafter referred to as SJVN) and SJVN considering such response to the RfS of.....[Insert name of the Bidder] (which expression shall unless repugnant to the context or meaning thereof include its executors, administrators, successors and assignees) and selecting the Project of the SOLAR Power Developer and issuing Letter of Award No.datedto.....(Insert Name of selected SOLAR 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 for this purpose}, if applicable].

As per the terms of the RfS, the..... [Insert name & address of Bank] hereby agrees unequivocally, irrevocably and unconditionally to pay to Client organization/SJVN at [Insert Name of the Place from the address of the Client organization/SJVN] without demure forthwith on demand in writing from Client organization/SJVN or any Officer authorized by it in this behalf, any amount up to and not exceeding Indian Rupees.....[Total Value] only, on behalf of M/s [Insert name 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 RupeesOnly).

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.

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

..... (Indian Rupees Only) and it shall remain in force until

(Provide for two additional months after the period of Guarantee for invoking the process of encashment). We are liable to pay the guaranteed amount or any part thereof under this Bank Guarantee only if Client organization/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.....

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.
2. At the request of M/s, on behalf of (insert name of the SPV), this Payment on Order Instrument (POI) for an amount of Rs..... (Rupees.....(in words)). This Payment on Order Instrument comes into force immediately.
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 RfS of [insert the name of the selected Solar Power Developer] (which expression shall unless repugnant to the context or meaning thereof include its executors, 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 for this purpose}, if applicable]. As per the terms of the RfS, the..... [insert name & address of IREDA/PFC/REC] hereby agrees unequivocally, irrevocably and 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 authorized by it in this behalf, any amount up to and not exceeding Rupees [Total 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 ___ 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 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

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:

- 1) **RESOLVED THAT** Mr/ Ms....., be and is hereby authorized to do on our behalf, all such acts, deeds and things necessary in connection with or incidental to our response to RFS vide RFS No.for..... (insert title of the RFS), including signing and submission of all documents and providing information/ response to RFS to SJVN Limited (SJVN), representing us in all matters before SJVN, and generally dealing with SJVN in all matters in connection with our bid for the said Project. **(To be provided by the Bidding Company or the Lead Member of the Consortium)**

[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

.....

(Signature, Name and Stamp of Company Secretary)

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 incorporated 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#.....

To

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 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.

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]

Net Worth Requirement to be met by Member in Proportion to the Equity Commitment:
 Crore (Equity Commitment (%) * Rs.....Crore)

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. In case of the Bidder choosing to meet the Working Capital criteria through an In-principle sanction letter, such document shall be separately submitted by the bidder as part of the bidder’s Response to RfS.

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#

To

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#

To

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..... day of....., 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)

Ref. No..... Date:
From.....*(Insert name and address of Bidding Company/Member of Consortium)*
.....
..... Tel.:#:
Fax#:
E-mail address# To

SJVN Limited
6th Floor, Plate-B, NBCC Office Block Tower-2, East
Kidwai Nagar, New Delhi - 110 023

Sub: Response to the RFS No.....dated 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 7.10

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#

To

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 the_day 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 statewide, 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)

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)

Format no.7.11 Table – A: 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

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	Remarks

(Seven) Years prior to the last day of month previous to the one in which the RFS is invited.

Format no.7.11 Table – B: 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)

Annexure-B

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

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) modules 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, drawing & 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 $-0.4\%/^{\circ}\text{C}$ for crystalline modules and $-0.3\%/^{\circ}\text{C}$ 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, I_m , V_m 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.
- 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 P_{max} shall be mentioned on the label pasted on the back side of PV Module.
 - ii. 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 power-

producing 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 SO0MM.

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 2MM 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 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
 - 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 shall 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 100MM can be used with proper chipping. The minimum RCC size should be 400x400x300 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 - III) 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} CuSO4 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 JB's shall be such that input & output termination can 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, II 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.
- Variation in supply voltage: as per CEA/State regulations
 - 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 arrester 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 arrester 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 arrester 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 Arrester shall be used.

8.3 Surge Protection

- 8.3.1 Internal surge protection, wherever required, shall 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 IEC/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/JSON 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.**
- 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. Junction Box. Fuses, MOVs / arrestors, MCCBs etc. alongwith spare set of PV modules be indicated, which shall be supplied alongwith 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 alongwith basic design of the power plant and power evacuation, synchronization alongwith 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**Quality Certification, Standards and Testing for
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 / IS 16170-1	Photovoltaic (PV) Module Performance Testing and energy rating – Irradiance and temperature performance measurements, and power Rating.
IEC 62716 / IS 16664	Photovoltaic (PV) Module – Ammonia (NH ₃) Corrosion Testing (As per the site condition like dairies, toilets etc.)
IS 16077: 2013 / IEC 61646 : 2008	Thin – Film terrestrial Photovoltaic (PV) Module – Design Qualification and type approval.
IS / IEC 61730 – 1,2	Photovoltaic (PV) Module Safety Qualification – Part 1: Requirements for Construction, Part – 2 : Requirements for Testing
IS 17210 (part1) or IEC TS 62804-1	Photovoltaic (PV) Module – Test method for detection of potential – 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 applicable)	Photovoltaic System – Power Conditioners : Procedure for Measuring Efficiency (10%, 25%, 50%, 75% & 90% Loading Conditions)
IEC 60068-2 / IEC 62093 (as applicable)	Environmental Testing of PV System – Power Conditions and Inverters
IEC 62116:2014 / IS 16169	Utility – interconnected photovoltaic inverters – Testing procedure of islanding prevention measures.
IEC 62103/62109-1 &2	Electrical Safety
IEC 6100-6-2, IEC 61000-6-4 and other relevant part of IEC 61000	Electromagnetic Compatibility(EMC)

FUSES

IS / IEC 60947 (Part1, 2 & 3), EN 50521	<p>General Safety requirements for connectors, switches, circuit breakers (AC/DC):</p> <ol style="list-style-type: none"> 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)	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)
IS 17293:2020	Electric Cable for Photovoltaic Systems for Rated Voltage 1500 V DC
Earthing / Lightning	
IEC 62561 / IEC 60634 / IEC 60634 Series (Chemical earthing) as applicable)	<p>IEC 62561-1: Lightning protection system components (LPSC) – Part : Requirements for connection components</p> <p>IEC 62561-2: Lightning protection system components (LPSC) – Part 2 : Requirements conductors and earth electrodes.</p>

	IEC 62561-7: Lightning protection system components (LPSC) – Part 7: Requirements for earthing enhancing compounds
Junction Boxes	
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.

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

Sl. No	Documents	Yes/No	Page No.
1	Copy of Project Inspection report along with the required documents as per SJVN format		
2	Copy of CEIG Certificate		
3	Copy of Beneficiary/client Completion certificate as per Annexure (Mandatory when date of inspection is after date of commissioning)		
4	Solar PV plant Insurance Cover		
5	Net Metering Installation report/Intimation to DISCOM /NOC from DISCOM regarding plant connectivity approval		
6	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.		

Signature(Authorized Signatory)

ANNEXURE - F

**BENEFICIARY COMMISSIONING/COMPLETION REPORT FOR GRID
CONNECTED SOLAR PHOTOVOLTAIC POWER PLANT**

Certified that a Grid Connected SPV Power Plant of kWp capacity has been installed and commissioned at the site District of which has been installed and commissioned by M/s on The system is as per SJVN RfS No:dt. and its subsequent amendment and clarifications specifications. The system has been checked for its performance onand the plant made operational.

Signature of client's

SJVN/Representative,

Date & Seal

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 Details*		
3	Address of the Rooftop Project Site:*	H No:
		Street Name:
		Village Name:
		District Name:
		State:
	Pin Code:	
4	Phone / Mobile no. *	
5	Email Id:	
6	Electricity Consumer K. No. *	<input type="checkbox"/>
7	Categor y) *	<input type="radio"/> Residential <input type="checkbox"/> Commercial <input type="checkbox"/> Industrial <input type="radio"/> Educational <input type="checkbox"/> Government <input type="checkbox"/> Others, Specify
8	Installed Plant Capacity DC (kWp)*	
9	Contracted capacity AC (kW)	
10	Connected load (kW)*	
11	Voltage level at interconnection*	<input type="radio"/> 415 V <input type="radio"/> 11 kV <input type="radio"/> above 11 kV <input type="checkbox"/>
12	Nearest Transformer Details	Location: Capacity:
13	Details of Inverter with Anti-Islanding Protection* Phase (Φ): Galvanic Isolation	Make: Capacity: <input type="radio"/> Single phase <input type="checkbox"/> 3-Phase <input type="radio"/> Inside Inverter <input type="checkbox"/> Outside Inverter
14	Both AC and DC components of the SPV power plants Earthed*: <input type="checkbox"/>	

15	CEIG Inspection required*	<input type="radio"/> Yes <input type="radio"/> No
16	If, Yes, Inspection date * (Attach copy of CEIG Certificate)	

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

***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

Project Inspection Report under RfS No:			
Dated:			
Date of Inspection:			
A	Name of the Solar Power Developer:		
B	Name of the Building Department / Organization:		
C	Name of the Ministry:		
D	Address of SPV power plant installed:		
E	Contracted Capacity AC(kW)		
F	Meter Consumer Number:(Electricity bill copy to be attached)		
S. No	Component	Details	Page No.
1	Installed Project capacity in (kWp)		
2	Whether the system is installed in shadow free area or not? If not mention the details.	YES /NO	
3	PV modules	1- Attach Invoice copy of modules 2- Attach Delivery challan of modules	
4	Type, Make and year of manufacturing of Modules		
5	Flash Test Report for all modules (rated output power of any supplied module shall have positive tolerance in range of 5 watt)	YES/NO (Documents attached)	
6	PV module qualification test standard (IEC 61215/IS14286 / IEC 61730 / IEC 61701/IS 61701 (for highly corrosive atmosphere)	Certificate Number: Certificate issued by: Certificate issued on: Certificate valid up to:	
7	Wattage of each module and Total No. of modules		
8	Integrated bypass diodes	YES/NO	
9	Representative I-V curve of modules @STC	Documents attached	
(Signature – SPD’s Representative)		(Signature- client’s representative)	(Signature - SJVN’s representative /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 attached)	
12	Warranty Certificates (Material Warranty/ Performance Warranty) signed and stamped by bidders	Signed and Stamped copy by bidder (Documents attached)	
13	Protection class of Junction box of modules (IP- 65)	YES/NO	
ARRAY STRUCTURE			
14	Material of structure	Hot dip galvanized MS / Steel (IS 2062: 1992) / Aluminium (Check Material test report as per IS)	
15	Galvanisation of mounting structure as per IS 4759	YES/NO (check test report as per IS)	
16	Galvanisation thickness of mounting structure	1. _____mm 2. Galvanisation test report as per IS – YES/NO	
17	Wind load calculation sheet for wind zone of the location	Designed to sustain wind speed up to _____ kmph	
18	MMS Design certified by a recognized Lab/ Institution	1. YES/NO 2. Attach Document	
19	Material of fasteners (Stainless steel)	YES/NO	
20	Load bearing capacity of the roof	OK / Not OK (visual observation)	
21	Minimum clearance of the structure from the roofmm	
(Signature – Bidder's Representative)		(Signature- client's representative)	(Signature - SJVN's Inspector)

PCU/ Inverter			
22	Guaranteed Technical Particulars for PCU/ Inverter as per RfS	YES/NO	
23	Make, rating of each inverter & No. of Inverters (AC capacity of inverter)		
24	Combined Rated wattage of all inverters in Plant (Total AC rating)		
25	MPPT is integrated in the PCU/inverter	YES/NO	
26	Year(s) of manufacturing of inverters		
27	Switching devices, inverter data sheet as per RfS	YES/NO	
28	Protection of Enclosure (IP) and Location of Inverters (outdoor/indoor)		
29	Phase of inverter	3 phase / 1 phase	
30	Whether solar PV plant is synchronized with grid	YES/NO	
31	Inverter standard codes IEC 61683/IS 61683, IEC60068-2(1, 2, 14, 30) /Equivalent BIS Std.	Certificate Number: Certificate issued by: Certificate issued on: Certificate valid up to:	
32	Anti- Islanding (IEEE 1547/UL1741/IEC 62116)	Certificate Number: Certificate issued by: Certificate issued on: Certificate valid up to:	
33	Serial Numbers of installed inverters		
DCDB /Junction Boxes (if required)			
34	GTP of JB as per RfS	YES/NO	
35	IP protection level	IP - (Check Test report as perIS)	
36	Bus bar material of DCDB	Copper, YES/NO,	
37	MCB/MCCB installed	YES/NO, Rating, Data sheet attached	
38	Surge arrester, SPDS	YES/NO, Rating, Data sheet attached	
(Signature – Bidder's Representative)		(Signature- client's representative)	(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	
AC DISTRIBUTION 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 groundMeters	
51	Test report of ACDB as per IE Rules	YES/NO	
Lightening 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,	1sqmm Material - 2sqmm, Material -	
55	Voltage drop in DC cable (Modules to inverters)	_____%,	
56	Voltage drop in AC cable (inverter to LT panel or T/F)	_____%,	
(Signature – Bidder's Representative)		(Signature- client's representative)	(Signature -SJVN's Inspector)
57	Cable Routing/ Marking (GI cable tray and suitably tagged and marked with proper manner by good quality ferrule)	YES/NO	
Solar Plant 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	
Transformer (If required)			
62	Transformer rating, Type etc.		
Miscellaneous			
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, values..... ohms	
65	NOC from the Concerned DISCOM for the connectivity, technical feasibility, and synchronization of SPV plant	YES/NO, attached (not mandatory)	
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 Representative)		(Signature- client's representative)	(Signature - SJVN's Inspector)
Drawings at Site			
73	Layout of solar Power Array As built drawing (A3 Sheet)	Check and Attach	
74	Shadow analysis of the roof	Check and Attach	
75	Single line diagram of plant (SLD) A 3 sheet	Check and Attach	

76	Structural drawing along with foundation details for the structure (A3 Sheet)	Check and Attach	
77	Itemized bill of material for complete SPV plant covering all the components and associated accessories. The country of manufacturing needs to be mentioned for all major components like modules, inverters, cables, mounting structure, switchgear, SCADA system etc.	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		
(Signature – Bidder's Representative)		(Signature- client's representative)	(Signature - SJVN's Inspector)

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.

$$PR = \frac{\text{Energy Measured (kWh)}}{\text{Installed capacity in kWp} \times \text{Measured Solar irradiance(kWh/m}^2\text{)}}$$

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 kW/m ²		
Performance Ratio (%): (B/AxC)x100		
Date of Installation/ Completion of the Rooftop Solar PV Project to be certified by client 's Representative		

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

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:

- 1) 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.

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

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.

CAUTION: 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 in the 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[®] and the ‘Main-Bid’, the contents of the Electronic Forms[®] 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 a 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 <https://www.bharat-electronictender.com>, 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.

Important Note: 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. **Note:** 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.