

**Design, supply , installation , testing and
commissioning of
Roof Top Solar Power Plant in NABARD's HO
building at BKC, Mumbai**



**Department of Premises, Security and Procurement,
NABARD Head Office
Gr. Floor, A Wing, C-24, G Block,
Bandra Kurla Complex, Bandra (E)
Mumbai – 400051**

Date of issue of tender document	31 May 2019
Pre Bid Meeting with bidders	10 June 2019
Due date for submission of tender	24 June 2019
Date and time of opening technical bids	24 June 2019

VOLUME 1	3
NOTICE INVITING TENDER.....	3
FORM OF TENDER	6
ARTICLES OF AGREEMENT	8
INSTRUCTIONS TO BIDDERS AND GENERAL CONDITIONS OF CONTRACT.....	11
TECHNICAL SPECIFICATIONS	21
SPECIAL CONDITIONS OF CONTRACT	27
SAFETY CODE.....	28
ANNEXURE – 1- Appendix to tender activities	29
Annexure 2 – List of approved makes	30
Annexure-3 - Prequalification Documents	31
Annexure-4 - Format for Electronic Payment	36
VOLUME II – PRICE BID.....	31
SCHEDULE OF QUANTITIES.....	38

VOLUME 1

NOTICE INVITING TENDER

Ref. No. NB/ DPSP/ HO/ RTSPP-II/ 2019-20
31 May 2019

To Bidders

Dear Sirs,

Tender for 'Design, Supply, Installation, Testing and Commissioning of Roof Top Solar Power Plant at NABARD's Head Office building at BKC, Mumbai'

1. National Bank for Agriculture and Rural Development invites you to tender for the aforesaid work. National Bank for Agriculture and Rural Development intends to install Roof Top Solar Power Plants (RTSPP) on the terrace (2nd floor) of its existing Head Office Building in BKC, Mumbai. You are requested to submit your offer in sealed envelope for the aforesaid work as per detailed specifications and other requirements as mentioned more specifically elsewhere in this tender document.
2. Tenders can be downloaded from our website [https:// www. nabard.org/ English / Tenders.aspx](https://www.nabard.org/English/Tenders.aspx) and CPPP (Central public procurement portal). Those tenderers can only download from CPPP if they are registered with CPPP.
3. The Pre-Bid meeting will be held on 10 June 2019 **at 11:00 Hrs.** To be eligible to participate in the pre-bid, the bidder should have already conducted a site survey and should have satisfied himself about the overall feasibility of the work. The clarifications being sought in the pre-bid meeting should be submitted in writing at least two working days prior to the date of pre-bid meeting.
4. Sealed offers in two separate Envelopes indicating clearly '**Envelope No.1**' and '**Envelope No.2**', should be addressed to Chief General Manager, Department of Premises, Security and Procurement, NABARD, Plot No. C-24, 'G' Block, Bandra-Kurla Complex, Bandra (E), Mumbai - 400051 and superscribed "**Tender for Design, Supply, Installation, Testing and Commissioning of Roof Top Solar Power Plants at NABARD's Head Office building at Mumbai**". The tender should be submitted not later than 13:00 hrs. on the 14 June 2019.
5. Envelope No.1 shall contain
 - a. Volume I of tender, every page of which should be duly signed and stamped.
 - b. Bar Chart indicating the program for the execution of the work.

- c. Earnest Money Deposit (EMD) of Rs 19,000/- (Rupees nineteen thousand only) by way of a Demand Draft from Nationalised Bank/ Scheduled Bank payable at Mumbai in favour of '**NABARD**'. Tender without EMD shall be rejected.
 - d. Technical aspects of the offer.
 - e. Duly filled in prequalification documents
 - f. Drawings.
6. Envelope No.1 will be opened on the same day as that of last date for submission of tender, at 15.00 hrs. in the presence of bidders' representatives, should they choose to be present. The date for bidder presentations will be intimated on the same day.
7. Envelope No.2 shall contain:
- a. Price/ Commercial Bid complete in all respects duly sealed and addressed by name to Chief General Manager, Department of Premises, Security and Procurement, NABARD, Mumbai.
 - b. Envelope No.2 should not contain any conditions whatsoever and any conditional bids shall be rejected.
 - c. Envelope No.2 will be opened on some suitable date, which will be communicated later.
8. Before filling up the tenders, the bidders may note the following:
- a. After opening of technical bid , the prequalification documents would be scrutinized. The firms those meet the prequalification criteria will be eligible for the work and only their price bids would be opened.
 - b. The bid shall remain valid and open for acceptance for 3 months from the date of opening of Envelope No.2
 - c. Time of Completion : The work shall be completed within 2 months from the date of issue of Work Order.
 - d. All documents that comprise the offer should be signed and sealed by the firm.
 - e. Liquidated damages for delay in completion of the works will be levied at 0.25% of the value of the accepted tender for every week of delay or part thereof, subject to maximum of 5% of the value of the accepted tender.
 - f. NABARD reserves the right to accept or reject any /all tender/s in part or whole of any firm / firms without assigning any reasons for doing so.

9. The successful bidder shall execute an agreement with NABARD in accordance with the standard format enclosed within 14 days from the date of acceptance of the offer failing which the bidder's EMD may stand forfeited.

Thanking you,

Yours faithfully,

Sd /-

(A. Bahadur)

Dy. Gen. Manager

DPSP, NABARD, Mumbai.

FORM OF TENDER

Date :

The Chief General Manager,
Department of Premises, Security and Procurement,
National Bank for Agriculture and Rural Development
Plot No. C-24, 'G' Block
Bandra Kurla Complex
Bandra(E)
Mumbai – 400051

Dear Sir,

Tender for 'Design, Supply, Installation, Testing and Commissioning of Roof Top Solar Power Plants at NABARD's HO building at BKC, Mumbai'

Having examined the Technical Specifications and Price Bid relating to the works specified in the Memorandum hereinafter set out, having visited and examined the site of the works specified in the said Memorandum and having acquired the requisite information relating thereto as affecting the tender, I/We hereby offer to execute the works specified in the said Memorandum within the time specified, at the rates mentioned in the Price Bid and in accordance in all respects with the Technical Specifications and instructions in writing referred to the Conditions of Tender, the Articles of Agreement, Special Conditions, Price Bid and Conditions of Contract and with such materials as are provided for, by and in all other respects in accordance with such conditions so far as they may be applicable.

MEMORANDUM

- | | |
|--|--|
| a) Description of work | : Design, Supply, Installation, Testing and Commissioning of Roof Top Solar Power Plant at NABARD's HO building at BKC, Mumbai |
| b) Earnest Money | : Rs 19,000/- |
| c) Time allowed for completion of the work | : 2 months |
| d) Retention Money Deposit (RMD) | : 5% from every R.A. Bill, maximum 5% of actual value of work. |
| e) Initial security deposit | : 2% of value of accepted tender value |

2. We understand that the time for completion shown above shall be reckoned from the date of issue of the Letter of Work Order.

3. Should this tender be accepted, I/We hereby agree to abide by and fulfill the terms and provisions or the said Conditions of Contract annexed hereto so far as they may be applicable or in default thereof to forfeit the EMD and pay to the National Bank for Agriculture and Rural Development, the amount mentioned in the said Conditions.

Our Banker's are :

i)

ii)

The names of partners of our firm are :

i)

ii)

iii)

Name of the partner of the firm
Authorized to sign:

OR

Name or person having Power of
Attorney to sign the contract
(certified copy of the Power of
Attorney should be attached):

Yours faithfully,

Signature of Tenderer

ARTICLES OF AGREEMENT

On Non-judicial stamp paper

ARTICLES OF AGREEMENT made this _____ day of _____ between the National Bank for Agriculture and Rural Development (hereinafter called “the Employer”) of the one part and _____ (hereinafter called “the Tenderer”) of the other part.

WHEREAS the Employer is desirous of getting executed ‘Design, Supply, Installation, testing and Commissioning of Roof Top Solar Power Plant at its Head Office building at Bandra Kurla Complex, Mumbai.

AND WHEREAS the Tenderer has agreed to execute upon and subject to the conditions set forth in the Price Bid and Conditions of Contract (all of which are collectively hereinafter referred to as “the said Conditions”) the work shown upon the said technical specifications, and included in the Price Bid at the respective rates therein set forth amounting the sum as therein arrived or such other sum as shall become payable there under (hereinafter referred to as “the said contract amount”).

NOW IT IS HEREBY AGREED AS FOLLOWS :-

1. In consideration hereinafter mentioned, the Tenderer will upon and subject to the conditions annexed, carry out and complete the works shown in the contract, described by or referred to in the Schedule of Quantities and in the said conditions.
2. The Employer shall pay the Tenderer the said contract amount or such sum as shall become payable at the times and in the manner specified in the said conditions.
3. The said Conditions and Appendix thereto and the documents attached hereto shall be read and construed as forming part of this Agreement and the parties hereto shall be respectively abide by, submit themselves to the said Conditions and the correspondence and perform the agreements on their part respectively in the said conditions and the documents contained herein.
4. This Agreement and documents mentioned herein shall form the basis of this contract.

4. This contract is a fixed lump-sum contract for the complete work to be paid for according to necessary installation carried out at site, at the rate contained in the Schedule of Rates or as provided in the said conditions.
5. The tenderer has understood, and hereby undertakes to comply with the Minimum Generation Guarantee clause as defined in the said conditions.
6. The Tenderer shall afford every reasonable facility for carrying out of all works of other Contractors employed by the Employer and shall make good any damage done to walls, floors, etc. after the completion of such works.

7. The Employer reserves to itself the right of altering the nature of work by adding to or omitting any items of works or having portions of the same carried out without prejudice to this contract.

8. Time shall be considered as the essence of this contract, and the Tenderer hereby agrees to commence the work/job within the tenth day of receipt of the work order as provided for in the said conditions and to complete the entire work within the time period prescribed below reckoned from the date of receipt of such work order subject nevertheless to the provision for extension of time.

9. All payments by the Employer under this contract will be made only at Mumbai

10. All disputes arising out of or in any way connected with this agreement shall be deemed to have arisen at Mumbai and only Courts in Mumbai shall have the jurisdiction to determine the same to the exclusion of all other courts.

11. That the several parts of this contract have been read by the tenderer and fully understood by the tenderer.

IN WITNESS WHEREOF the Employer has set its hands to these presents through its duly authorized officials and the Tenderer has caused its common seal to be affixed hereunto and the said two duplicates/ has caused these presents and the said two duplicates hereof to be executed on its behalf, the day and year first herein above written. (If the Tenderer is a company).

Signature Clause

SIGNED AND DELIVERED by the
National Bank for Agriculture and
Rural Development by the hand of
Shri

(Name & Designation)

In the presence of:

Witness #1

Signature:

Name:

Address

Witness #2

Signature:

Name:

Address

SIGNED & DELIVERED by

If the bidder is a partnership firm
should be signed by all or on
behalf of all the partners.
in the presence of :

The COMMON SEAL OF:
was hereunto affixed pursuant to the resolutions
passed by its Board of Directors at the meeting
held on:

Directors who have signed these
presents in token thereof.

If the bidder signs under Presents of
the common seal, the signature clause should
tally with the sealing clause in the Articles of Association

SIGNED AND DELIVERED by the Bidder
the hand of Shri.

If the bidder is signing by the by the by
hand of Power of Attorney, whether
a company or an individual.

Duly Constituted Attorney.

Witness #1

Signature: _____

Name:

Address

Witness #2

Signature:

Name:

Address

INSTRUCTIONS TO BIDDERS AND GENERAL CONDITIONS OF CONTRACT

1. The tenderer must use only the Price Bid format issued by the Bank, to fill in the rates. Any addition/alteration in the text of the tender made by the tenderer shall not be considered. Such tender/s may be considered invalid by the Bank at its discretion.
2. All entries must be made by hand and written in ink. If any of the documents is missing or unsigned, the tender may be considered invalid by the Bank in its discretion.
3. Rates and amounts should be quoted both in figures and in words in columns specified. All erasures and alterations made while filling the tender must be attested by initials of the tenderer. Overwriting of figures is not permitted.
4. Failure to comply with either of these conditions will render the tender void at the Bank's option. No advice whatsoever especially on any change in rate, specifications or conditions after the opening of the tender will be entertained. If on check there are differences between the rates given by the contractor in words and figures or in the amount worked out by him, the following procedure shall be followed:
5.
 - a. When there is a difference between the rates in figures and in words, the rates that correspond with the rate written either in figures or in words, then the rate quoted by the contractors in words shall be taken as correct.
 - b. When the amount of an item is not worked out by the contractor or it does not correspond with the rate written either in figures or in words, then the amount corresponding to the rate quoted by the contractors in words shall be taken as correct.
 - c. When the rates quoted by the contractor in figures and in words tallies but the amount is not worked out correctly, the rate quoted by the contractor shall be taken as correct and not the amount.
6. Each page of the Tender Document should be signed by the authorized person or persons submitting the tender in token of his/their having acquainted himself/themselves with the General Conditions of Contract. General specifications, Special Conditions, etc. as laid down. Any tender with any of the documents not so signed will be liable to be rejected.
7. The tender submitted on behalf of a firm shall be signed by all the partners of the firm or by a partner who has the necessary authority on behalf of the firm to enter into the proposed contract. Otherwise the tender may be rejected by the Bank.
8. A tender that is not accompanied by EMD shall be rejected. The EMD will be returned to the tenderer if his tender is not accepted by the Bank but without any interest thereon. The EMD paid by the successful tenderer shall be retained by NABARD as security for execution and fulfillment of the contract. No interest shall be paid on this deposit. The EMD of the successful tenderer will be forfeited

if he fails to comply with any of the conditions of the Contract /Tender Document.

9. The National Bank for Agriculture and Rural Development does not bind itself to accept the lowest or any tender and reserves to itself the right to accept or reject any or all the tenders, either in whole or in part, without assigning any reasons for doing so.
10. All the firms are required to submit the prequalification documents in the enclosed formats. On opening of envelope-I (Technical bid), the the prequalification documents would be examined and the firms who meet the prequalification criteria would be eligible for the work and their price bid only will be opened and considered for evaluation.
11. On receipt of intimation from the Employer of the acceptance of his / their tender, by way of Work Order, the successful tenderer shall sign an agreement in accordance with the agreement in the format prescribed herein and the Price Bid. A work order by the National Bank for Agriculture and Rural Development of a tender will constitute a binding contract between the National Bank for Agriculture and Rural Development and the bidder so tendering, whether such formal agreement is or is not subsequently executed. The cost of necessary stamp paper for execution of the agreement shall be borne by the successful tenderer.
12. The tenderer shall not assign the contract and shall not sublet any portion of the contract except with the written consent of the Employer. In case of breach of these conditions, the Employer may serve a notice in writing on the tenderer rescinding the contract whereupon the security deposit shall stand forfeited to the Employer, without prejudice to his other remedies against the tenderer.
13. The Tenderer shall carry out all the work strictly in accordance with details and instructions of the Bank's concerned Officials. If in the opinion of the Bank's Officials, changes have to be made in the design and with the prior approval in writing of the Employer they desire the Tenderer to carry out the same, the Tenderer shall carry out the same. The Bank's Officials decision in such cases shall be final.
14. A Schedule of Probable Quantities in respect of each work and Specifications accompany these General and Special Conditions. The Price Bid should contain not only the rates but also the value of each item of work entered in a separate column and all the amounts quoted against various items should be totaled in order to show the aggregate value of the entire tender.
15. The tenderer must obtain for himself on his own responsibility and at his own expenses all the information which may be necessary for the purpose of making tender and for entering into a contract and inspect the site of the work, acquaint himself with all local conditions, means of access to the work, nature of work and all matters pertaining thereto.
16. The rates quoted in the tender/offer shall be for the complete item including, design, supply, installation, testing and commissioning at site. The rate shall also include all charges for storing, watch and ward, reinstating and making good damaged work if any to its original finish, etc. The rates quoted shall be deemed

to be for finished work to be measured at site. The rates quoted in the tender shall include all charges for packing, transport, loading, unloading and for delivery at site. The rates shall also be firm during the period of contract including extended period if any and rates shall not be subject to exchange variation, labour conditions, and fluctuations in railway freights, taxes or any conditions whatsoever. Tenderers must include in their rates, tax or any other levy as existing, levied by the Central Government or any State Government or Local Authority, if applicable. No claim in respect of increase in tax, duty or levy during the duration of the contract shall be entertained by the Employer. The same will remain firm during the contract period.

17. The tenderer shall note that unless otherwise stated the tender is strictly on lump sum basis and his attention is drawn to the fact that rate should be correct, workable and self-supporting. The tenderer shall carry out all works necessary for completion of work and for delivering the desired results. No claim shall be entertained on this account.
18. Time allowed for carrying out the work shall be strictly observed by the tenderer. The work shall throughout the stipulated period of the contract be proceeded with all due diligence.
19. The tenderer shall not be entitled to any compensation for any loss suffered by him on account of delays in commencing or executing the work, whatever the cause of delays may be including delays arising out of modifications to the work entrusted to him or in any subcontract connected therewith or delays in awarding contracts for other trades of the project or in commencement or completion of such works or in procuring government controlled or other building materials or in obtaining water and power connections for construction purpose or for any other reason whatsoever and the Employer shall not be liable for any claim in respect thereof. The Employer does not accept liability for any sum besides the tender amount, subject to such variations as are provided for herein.
20. The successful tenderer is bound to carry out any or all items of work necessary for the completion of the job even though such items are not included in the quantities and rates.
21. The successful tenderer must cooperate with the other contractor appointed by the Employer so that the work shall proceed smoothly with the least possible delay and to the satisfaction of the Bank's Engineer/Officials.
22. The tenderer shall guarantee that the work shall be free from any defects whatsoever for a period of 05 year Defects Liability Period (warranty) from the date of completion/ commissioning of the work.
23. **DELIVERY SCHEDULE:** The work allotted to the Bidder is to be completed within 2 months reckoned from the date of issue of the Work Order . Bidders are advised to visit the site and get themselves fully acquainted with the general and local site conditions, particularly those bearing upon transportation, handling, storage and the like, prior to quoting for the work.
24. Any defects or shortcomings found during execution of work and during the defects liability period from the completion of the entire work shall be

attended/rectified by the tenderer without any extra cost to the Employer. In case of failure to do so within 10 days from such notice from the Bank, the Employer may get such rectification works carried out through any other firm and expenditure incurred by the Bank shall be recovered from any money due to the Contractor.

25. Initial Security Deposit: A sum equivalent to 2% of contract sum is required to be deposited by the firm within 7 (seven) days from the date of issue of work order. Earnest Money Deposit, Initial Security Deposit and Retention Money Deposit will form a total Security Deposit. The entire Security Deposit will be refunded after three months from the expiry of defects liability period.
26. No escalation shall be allowed on the rates of this contract.
27. No mobilization advance shall be paid to the Contractor.
28. Storage space may be allowed at site as per the availability. The Contractor will have to make his own arrangement for security and locking arrangement of the storage space. The Contractor may be required to vacate the storage space as per Employer's exigency without any extra cost.
29. The contractor has to make his own arrangement of stay for his employees.
30. TERMS OF PAYMENT:
The contractor shall be entitled to receive payment on the basis of installation and commissioning, approved and certified by the Bank's concerned Officials regarding compliance with specifications and acceptability subject to deductions herein after mentioned in **Annexure I**.
31. Labour Law / Act - The contractor will be governed by the local Labour Laws / Acts in force.
32. Delay and Extension of Time : If in the opinion of Bank's Officials, works be delayed by force majeure such as (a) war / hostilities, (b) riots or civil commotion, (c) earthquakes, fire tempest, lightening or other natural / physical disasters, etc., (d) restrictions imposed by the Government which prevent or delay the execution of the order or by any other reasons, a suitable extension of time will be given and no extra claim will be paid by the Employer whatsoever.
33. The Contractor shall use all materials conforming to relevant BIS/ relevant Code and will use the best materials of approved manufacture.
34. Contractor's Representative on Works - Contractor shall maintain at site responsible, efficient, qualified and well experienced incharge during the contract period. Any clarifications, explanation, instructions or notices given by the Employer to such in-charge shall be deemed to be given to the contractor and shall be binding on the contractor.
35. Dismissal of Workman - Contractor shall, on the request of the Employer, immediately dismiss from the work any person in the opinion of Employer be unsuitable or incompetent or who may be guilty of misconduct.
36. The contractor shall at the instructions of the Employer within such time as notified, open up for inspection any work and should the contractor refuse or neglect to comply with such instructions, the Employer may employ other workman to open of the same. Such work if it is found not in accordance with approved specifications, or the instructions, expenses of opening up and redoing

if required shall be borne by and recoverable from the Contractor from any money due or which may become due to the contractor.

37. NOTICES: Notices of the Employer, to the contractor may be served personally or by being left at or sent by registered post to the last known place of the business of the party to whom the same is given or in the case of the contractor by being left on the works. Notices may be served at or sent by registered post to the registered office of the contractor. Any notice sent by registered post shall be deemed to be served at the time when in the ordinary course of post, it would be delivered.

38. TERMINATION OF CONTRACT BY THE EMPLOYER:

If the contractor being an individual or a firm, commit any "Act of Insolvency" or shall be adjudged an insolvent or being an incorporated company shall have an order for compulsory winding up or applies for voluntary winding up or subject to the supervision of the court and of the official assignee or the liquidator, in such acts of insolvency or winding up shall be unable within seven days after notice to him requiring him to do so, to show to the reasonable satisfaction of the employer that they are able to carry out and fulfill the contract, and to give security, therefor, if so required by the employer.

OR if the contractor (whether an individual Firm or Incorporated Company) shall suffer execution to be issued, or shall suffer any payment under this contract to be attached by or on behalf of any of the creditors of the contractor, or shall assign or sublet the contract without the consent in writing of the employer first obtained.

OR shall charge or encumber this contract or any payments due or which may become due to the contractor there under.

OR if the contractor

- a. has abandoned the contract or
- b. has failed to commence the works, or has without any lawful excuse under these conditions suspended the progress of the works for seven days after receiving from the employer written notice to proceed, or
- c. has failed to proceed with the works with such due diligence and failed to make such due progress as would enable the works to be completed within the time agreed upon, or
- d. has failed to remove materials from the site or to pull down and replace work for seven days after receiving from the employer written notice that the said materials of work were condemned and rejected by the employer under these conditions or
- e. has neglected or failed persistently to observe and perform all or any of the acts, matters or things by this contract to be observed and performed by the contractor for seven days after written notice shall have been given to the contractor requiring the contractor to observe or perform the same, or
- f. has to the detriment of good workmanship or in defiance of the employer's instructions to the contrary sublet any part of the contract.

Then and in the event of any of the aforesaid cases, the Employer may, notwithstanding any previous waiver, after giving seven days notice in writing to the contractor, determine the contract but without thereby affecting the powers of the employer or the obligations and liabilities of the contractor, the whole of which shall continue in force as fully as if the contract has not been so determined and as if the works subsequently executed has been executed by or on behalf of the contractor.

And further, the Employer may enter upon and take possession of the work and all plant, tools, scaffolding, sheds, machinery and materials lying upon the premises or the adjoining lands or roads and use the same as his own property or may employ the same by means of his own servants and workmen in carrying on and completing the works or by employing any other contractors or other persons to complete works, and the contractor shall not in any way interrupt or do any act, matter or thing to prevent or hinder such other contractor or other person or persons employed for completing and finishing or using the materials and plant for the works. When the works shall be completed or as soon thereafter as convenient, the employer shall give a notice in writing to the contractor to remove his surplus materials and plant, and should the contractor fail to do so within a period of 14 days after the receipt thereof by him, the employer shall sell the same by public auction, and shall give credit to the contractor for the amount realised on deducting therefrom the costs of removal and sales.

If any sum shall be due or payable to or by the employer for the values of the said plant and materials so taken possession of by the employer and the expense of loss which the employer shall have been put to in requiring the works to be completed, and the amount, if any, owing to the contractor and the amount which shall be so certified shall thereupon be paid by the employer to the contractor or by the contractor to the employer, as the case may be, and the employer's certificate shall be final and conclusive between the parties.

On termination of the contract, the contractor shall forth with remove himself and his workmen from the work site.

39. TERMINATION OF THE CONTRACT BY THE CONTRACTOR

If the payment of the amount payable by the employer shall be in arrears and unpaid for 30 (thirty) days after it has become due as per payment terms and after notice in writing requiring payment of the amount shall have been given by the contractor to the employer and if the employer unreasonably withholds any such payment then contractor shall be entitled to give a termination notice and terminate the contract and recover from the employer payment for all works

executed for the purpose of the contract.

In arriving at the amount of such payment, the net rates contained in the contractor's original tender shall be followed.

40. MATTERS TO BE FINALLY DETERMINED BY THE EMPLOYER

The employer's decision, opinion, direction, with respect to all or any of the matter such as scope of work, contractor to provide everything necessary, materials and workmanship to conform the description, assignment of subletting, defects after completion, delay & extension of time, opened up works and the schedule of rates as contained in the Price Bid hereof and as to the exercise by them the right to have any works opened up shall be final and conclusive and binding on the contractor. Employer's instructions if any, in this regard in case of any urgency, shall also be complied immediately.

41. ARBITRATION

If any dispute, difference or question shall at any time arise between the parties as to the construction of this Agreement or concerning anything or as to the rights, liabilities and duties of the parties hereunder, except in respect of matters for which it is provided hereunder that the decision of the Employer or its Chief Engineer is final and binding, the same shall be referred to conciliation or arbitration after giving at least 30 days notice in writing to the other (herein after referred to as the "Notice for Conciliation / Arbitration") clearly setting out the items of dispute to a Conciliator or the Sole Arbitrator who shall be appointed as herein after provided for the purpose of appointing the Conciliator or the Sole Arbitrator who shall be appointing the Conciliator or the Sole Arbitrator referred above, the Employer shall send to the contractors, within thirty days of the Notice of Conciliation / Arbitration, a panel of three names of persons who shall be presently unconnected with the organisation of the Employer or the contractors.

The Contractor shall, on receipt of the names as aforesaid, select any one of the persons so named to be appointed as the Conciliator or Sole Arbitrator, as the case may be, and communicate his name to the Employer within fifteen days of receipt of the names. The Employer shall thereupon without any delay, appoint the said person as the Conciliator or Sole Arbitrator.

If the Employer fails to send to the Contractors, the panel or three names as aforesaid within the period specified, the contractor shall send to the Employer, a panel of three names of persons who shall be unconnected with either party. The Employer shall, on receipt of the names as aforesaid, select any one of the persons name and appoint him as the Conciliator or Sole Arbitrator. If the Employer fails to select the person and appoint him as the Conciliator or Sole Arbitrator within thirty days of receipt of the panel and inform the contractor accordingly, the contractor shall be entitled to appoint one of the persons from the panel as the Conciliator or Sole Arbitrator and communicate his name to the Employer.

If the person so appointed is unable or unwilling to act or refuses his appointment or vacates his office due to any reason whatsoever, another person

shall be appointed as aforesaid.

The Conciliation / Arbitration shall be governed by the Conciliation and Arbitration Act, 1996 as in force from time to time. Where the parties do not agree with the Conciliator and appoint an Arbitrator (s) the award of the Arbitrator (s) shall be final and binding on the parties. It is hereby agreed that in all disputes referred to Arbitration, the Arbitrator shall give a separate Award in respect of each dispute or difference in accordance with the terms of the reference and the Award shall be a reasoned Award.

The fees, if any, of the Conciliator or the Arbitrator shall, initially are paid in equal proportion by each of the parties. The cost of the Conciliation / Arbitration including the fees, if any, of the Conciliator or the Arbitrator, shall be directed to be finally borne by such party or parties to the dispute, in such matter or proportion as may be directed by the Conciliator or the Arbitrator, as the case may be in the Award.

The employer and the contractor also hereby agree that the Arbitration under this Clause shall be a condition precedent to any right to action under the contract with regard to the matters hereby expressly agreed to be so referred to Arbitration.

42. INSURANCE CONTRACT CONDITIONS CONTRACTOR'S LIABILITY AND INSURANCE

- a. From commencement to completion of works, the Contractor shall take full responsibility for the care of the work and for taking precautions to prevent loss or damage to the works and to minimize the loss or damage to the greatest extent possible and shall be liable for any damage or loss that may happen to the works or any part thereof from any cause whatsoever, inherent defects and failures due to poor workmanship and causes such as fire, lightening, explosion, earthquake, storm, hurricane, floods, inundation, subsidence, landslides, rock slides, riots (excluding civil war, rebellion, revolution and insurrection) and shall at his own cost repair and make good the same so that at all times the work shall be in good order and condition and in conformity in every respect with the requirements of the Contract.

Explanation:

For the purpose of this condition, the expression "from the commencement to completion of work" shall mean the time commencing from the issue of the work order to the contractor and ending with successful commissioning of the Plant.

- b. Without limiting the obligations and responsibilities under this condition, the Contractor shall insure and keep insured the works from commencement to completion, as aforesaid, for their full value provided under this Contract, increased by 25% against the risk of loss or damage from any cause whatsoever including the causes enumerated in the Clause (a) above. In the event of there being a variation in the nature and extent of the work, the Contractor shall from time to time increase or decrease the value of the insurance correspondingly. The entire premium

shall be borne and paid by the Contractor. The said insurance shall also provide for the removal of debris of the lost or damaged works.

- c. The Contractor shall at all times indemnify the Employer against all losses, claims or damages or compensation under the provisions of the payment of Wages Act 1936, Minimum Wages Act 1948, Employees Liability Act 1938, Workmen's Compensation Act 1923, The Maternity Benefit Act 1961, Industrial Disputes Act 1947 and Contract Labour and Regulation and Abolition Act 1970, Employer State Insurance Act 1948 or any modification thereof or any other law relating thereto and rules made there under from time to time or as a consequence of any accident or injury to any workman or other persons in or about the work whether in the Employment of the Employer, or Contractor or not and also against all costs, charges and expenses of any suit, action or proceedings whatsoever out of such accident or injury or combination of any such claims.
- d. Before commencing the work, the Contractor shall without limiting his obligations and responsibilities under this condition, insure against any loss of life or injury to any personnel in the employment of Contractor/Sub-Contractor/Nominated Sub-Contractor. For this purpose, insurance shall be taken by the Contractor/Sub-Contractor. Such insurance shall be taken to include both employees/workmen covered by the Workmen's Compensation Act 1923, as well those employees/workmen not covered by the said Act. Separate insurance policies may be taken for employees/workmen covered by Workmen's Compensation Act 1923, and employees workmen not covered by the said Act. All the premiums shall be paid by the Contractor.
- e. The Contractor shall at all times indemnify and keep indemnified the Employer against all losses and claims for injuries or damage to any person or any property whatsoever which may arise out of or in consequence of the construction and maintenance of the work and against all claims, demands, proceedings, damages, costs, charges and expenses whatsoever in respect of or in relation thereto. Before commencing the execution of the works, the Contractor shall without in any way limiting his obligations and liabilities under this condition, insure at his cost and expense against any damage or loss or injury which may be caused to any person or property including the Employee or servants of the Employer and the Consultants and their property by or in the course of the execution of the works. Such insurance to be known as the Third Party Insurance shall be in a sum equivalent to two percent of the value of the accepted tender, subject to the minimum sum of Rupees Five Lakhs. The Insurance Policy to be so obtained by the Contractor shall be deposited by the Contractor with the Employer within seven days of its issue by the insurer.
- f. The Contractor shall ensure that similar insurance policies are taken out by his sub contractors or nominated contractors, if any, and shall be

responsible for any claim or loss resulting from their failure to obtain adequate insurance protection in connection thereof. While taking the insurance policies, contractor should indicate clearly to the insurance companies that policies issued shall cover their sub-contractors and nominated sub-contractors also.

- g. No work shall be commenced by the Contractor unless and until he has obtained the insurance or insurance required to be obtained by him under or by the foregoing clauses and no work shall be carried out or continued by the Contractor unless and until each insurance is current and valid at that time.
- h. In the event of any claim for insurance becoming due on account of any eventuality covered by the respective insurance policy/policies, the Contractor shall reinstate the installation, replace the materials or equipments or pay compensating to the affected personnel/Employees without waiting for settlement of the claim from insurance company.

DECLARATION BY THE BIDDER

I / We hereby declare that I/We have read and understood the above instructions to the bidders and that the same are binding on me /us.

Signature of Bidder

Seal

Date:

Place:

TECHNICAL SPECIFICATIONS

1. Scope of work

- 1.1. Study the existing power system in the office and space available in the 2nd floor terrace ie. In 2.A and 2.C wing for installation of solar PV system. Design the solar system and get it approved by the Bank before installation.
- 1.2. Design, supply, install, test and commission the Roof Top Solar Power Plant in coordination with NABARD implementation team.
- 1.3. Liaise with MNRE or state Government for obtaining capital subsidy.
- 1.4. Conduct end user training on operation and maintenance for identified group of employees along with appropriate training tools such as detailed training manuals, presentations containing appropriate flow charts etc.
- 1.5. Prepare all the as-built drawings in soft copy (autocad) and hardcopy. All operating manuals, user manuals, system manuals, etc, as required.
- 1.6. Post Commissioning Support, in terms of five year defects liability period, and comprehensive annual maintenance contract for further five years period after completion of defects liability period.
- 1.7. Typical 2nd floor layout plan will be provided, but, the tenderer will have to prepare terrace area layout plan.
- 1.8. location and design of PV module structure should be such that the existing infrastructure on terrace is not disturbed.
- 1.9. Fabrication works are to be done at factory only. Only the assembly with nuts and bolts are to be done at the site.
- 1.10. The tenderer has to visit the site and only after being satisfied about the entire nature of work, has to submit the bid.
- 1.11. The supporting MS section/ girders should be located at a height such as to completely avoid the parapet wall shadows from falling onto the PV modules.

2. System Description

The Photovoltaic (PV) Grid connect system consists mainly of three components viz. the solar photovoltaic (SPV) array, Module Mounting Structure and the Power conditioning Unit (PCU)/ inverter. The PV array converts the solar energy into direct current (DC) electric energy. The Module mounting structure is used to hold the module in position. The DC power is converted to alternating current (AC) power by the Power Conditioning Unit (PCU) and fed into the building power system through metering panel and isolation panel.

3. PV Modules

- 3.1. The PV modules shall be of state of the art technology may be poly crystalline solar cells or the latest ones available in the market.
- 3.2. The power output of the modules should be a minimum of 15 kW. Photo/ electric conversion efficiency of SPV module shall be greater than 19%.
- 3.3. The modules used shall be grouped in an optimum number of strings with module-to-module cable connections.
- 3.4. The modules shall be held fixed on MS hot-dipped powder coated structures.

- 3.5. The modules shall be inclined at optimum horizontal tilt angle facing due south depending on the site location.
- 3.6. The DC output from the modules shall be fed to Array junction box and the strings are to be paralleled at Sub Main & Main Junction Boxes.
- 3.7. The output of the main junction box shall be fed to DC distribution board (DCDB).
- 3.8. The DC power output from the DCDB is fed to the Power Conditioning Unit (PCU).
- 3.9. The Power-conditioning unit shall be installed in a control room (to be strategically located).
- 3.10. The environmental requirements/ infrastructure to be provided in the control room will be **in tenderers scope**.
- 3.11. The AC synchronised power output of the inverter shall be fed to the AC Distribution Board of the building through the metering panel & isolation panel.

4. System Bill of Materials

Major components of solar power plant shall consist of:

- 4.1. Poly crystalline solar PV modules
- 4.2. Power Conditioning Units (Central Inverter)
- 4.3. Array /Sub main/Main Junction Boxes
- 4.4. Support Structures
- 4.5. Cables
- 4.6. AC Distribution Board (Metering panel, isolator panel)

5. Acceptance testing

The Acceptance Testing of various components of the system and the Integrated system to be offered by the bidder shall be done at the factory of the successful bidder.

6. Minimum specifications of the various components

6.1. PV Module :

- 6.1.1. The PV module should comprise of poly-crystalline silicon solar cells. The module must be tested and certified by MNRE approved test centres of India. SPV module conversion efficiency should be greater than 16% under Standard Testing Conditions.
- 6.1.2. The PV module shall perform satisfactorily in humidity up to 100% with temperatures between -4 to +85 degrees centigrade.
- 6.1.3. Since the modules would be used in a high voltage circuit, the high voltage insulation test shall be carried out on each module and a test certificate to that effect be provided.
- 6.1.4. The peak-power point voltage and the peak-power point current of any supplied module and/or any module string (series connected modules) shall not vary more than 3 (three) per cent from the respective arithmetic mean for all modules and/or for all module strings, as the case may be.
- 6.1.5. The PV module should have suitable number of poly crystalline silicon solar cells connected in series and hermetically sealed with impact resistant, low iron

and high transmission toughened glass on top and suitable lamination material on the back using state-of-the-art technology.

- 6.1.6. The module frame shall be made of a corrosion-resistant material that shall be electrolytically compatible with the structural material used for mounting the modules. Anodized aluminium channels may be used for framing the laminates.
- 6.1.7. The module shall be provided with a junction box with provision of external screw terminal connection and with arrangement for provision for by-pass diode. The box shall have hinged, weather-proof lid with screws and cable gland entry points or may be of sealed type.
- 6.1.8. Necessary I-V curves at 25, 45, 60 are required to be furnished.
- 6.1.9. A strip containing the following details should be laminated inside the module so as to be clearly visible from the front side: (a) Name of the Manufacturer.(b) Module Serial number & Year of Make.

6.2. Array structure/ PV panel structure

- 6.2.1. Wherever required, suitable number of PV panel structures shall be provided. Structures shall be of either I or L sections.
- 6.2.2. The structure will be MS hot-dipped power coated to make them non-corrosive and long lasting, and also give enough working space for other installations on terrace.
- 6.2.3. Structures shall be supplied complete with all members to be compatible for allowing easy installation at the rooftop site.
- 6.2.4. The structures shall be designed to allow easy replacement of any module.
- 6.2.5. Each structure will have a provision to adjust its angle of inclination to the horizontal as per the site condition and will be capable of withstanding a wind load of 200 Km/hr after grouting and installation.
- 6.2.6. The front end of the SPV array must be 1 meter above the roof surface. Grouting material for SPV structure shall be as per M15 (1:2:4) concrete specifications.
- 6.2.7. The structures shall be designed for simple mechanical and electrical installation. There shall be no requirement of welding or complex machinery at the installation site.
- 6.2.8. If prior civil work or support platform is absolutely essential to install the structures, the tenderer shall clearly and unambiguously communicate such requirements along with their specifications in the bid.
- 6.2.9. Detailed engineering drawings and instructions for such prior civil work shall be carried out prior to the supply of goods.
- 6.2.10. The supplier shall specify installation details of the PV modules and the support structures with appropriate diagrams and drawings.
- 6.2.11. Such details shall include, but not limited to, the following; a) Determination of true south at the site; b) Array tilt angle to the horizontal with permitted tolerance c) Details with drawings for fixing the modules d) Details with drawings for fixing the junction/terminal boxes e) Interconnection details inside the junction/terminal boxes f) Structure installation details and drawings

g) Electrical grounding (earthing) h) Inter-panel/Inter-row distances with allowed tolerances i) Safety precautions to be taken.

6.2.12. The array structure shall support PV modules at a given orientation and absorb and transfer the mechanical loads to the roof top columns properly.

6.2.13. All nuts and bolts shall be of very good quality stainless steel.

6.2.14. Detailed design and Drawing shall have to submit to NABARD for acceptance and approval before execution of work.

6.3. Power Conditioning Unit

6.3.1. DCDB output will be fed to PCU which mainly consists of Maximum Power Point Tracker (MPPT), Charge Controller, Inverter, Voltage Stabilizer, Frequency and voltage synchroniser and distribution panel along with necessary Displays, Indicators and Alarms.

6.3.2. The power conditioning unit (15KW) shall convert DC Power produced by SPV modules into grid quality AC Power.

6.3.3. Common Technical Specification:

Type : Self commuted, current regulated, high frequency, IGBT based.

Output Voltage : 3 phase, 440 VAC (+10%)

Wave form : Pure sine wave

Continuous rating : 1.5 KW

Nominal DC input: 120 V DC

Total harmonic distortion: < 3%

Operating temperature range: 50 to 550 C

Housing cabinet : IP 20

Inverter efficiency : > 90%

6.3.4. The charge controller and MPPT should preferably confirm to IEC 62109-3, IEC 62093 and IEC 62509 standards or equivalent BIS standards.

6.3.5. The inverter shall be preferably from Indian manufacturer having qualifications as per IEC 61683, IEC 62109-2 and IEC 62093 or equivalent BIS standards.

6.3.6. Important Features / Protections in the PCU:

- MPPT included.
- Array ground fault detection.
- LCD keypad operator interface menu driven.
- Automatic fault conditions reset for all parameters like voltage, frequency and/or black out.
- MOV type surge arrestors on AC and DC terminals for over-voltage protection from lightening induced surges.
- PCU operations from 50 to 550 C, provision for air conditioning be included.
- All parameters shall be accessible through an industry standard communication link.
- Over load capacity (for 30 seconds) shall be 200% of continuous rating.

6.3.7. The PCU shall be self-commuted and shall utilize a circuit topology and components suitable for meeting the specifications listed above at high conversion efficiency and with high reliability.

- 6.3.8. The PCU shall be of hybrid type and shall give the preference to feed the load from SPV power produced and shall draw the additional power from mains.
- 6.3.9. Automatic starting and transfer for extended grid failure periods.
- 6.3.10. Since PCU is to be used in solar photovoltaic system it should have high operational efficiency. The idling current at no load shall not exceed 2% of the full load current.
- 6.3.11. In PCU there shall be a direct current isolation provided at the output by means of a suitable isolating transformer.
- 6.3.12. The PCU shall include appropriate self protective and self diagnostic features to protect itself and the PV array from damage in the event of PCU component failure or from parameters beyond the PCU safe operating range due to internal or external causes. The self protective features shall not allow signals from the PCU front panel to cause the PCU to be operated in a manner which may be unsafe or damaging.
- 6.3.13. Faults due to malfunctioning within the PCU including commutation failure shall be cleared by the PCU protective devices.
- 6.3.14. Electrical Safety, Earthing and Protection :
- 6.3.14.1. Inbuilt protection for internal faults including excess temperature, commutation failure, overload, short circuit and cooling fan failure (if fitted) is obligatory.
- 6.3.14.2. Isolation: Isolation is required to avoid any DC component being injected into the grid and the potential for AC components appearing at the array.
- 6.3.14.3. Over Voltage Protection against atmospheric lightning discharge to the PV array is provided.
- 6.3.14.4. Earth fault supervision: An integrated earth fault device shall have to be provided to detect eventual earth fault on DC side and shall send message to the supervisory system.
- 6.4. Cabling practice :**
Cable connections must be made using PVC Copper cables, as per BIS standards. All cable connections must be made using suitable terminations for effective contact. Only FRLS cables and wires of appropriate sizes and reputed make shall have to be used.
- 6.5. All doors, covers, panels and cable exits shall be gasketed or otherwise designed to limit the entry of dust of moisture. All doors shall be equipped with locks.
- 6.6. Minimum Generation Guarantee**
- 6.6.1. The tenderer has to guarantee a minimum energy generation of 24000 kWh per annum. Failing which, a penalty @ Rs.12/- per kWh shortfall per annum will be deducted from the Security Deposit (SD) up to the defects liability period.
- 6.6.2. Beyond the defects liability period, this deduction will be effected from the AMC charges payable.
- 6.7. Evaluation of Commercial bid**
The total of (a) Design, Supply, Installation, Testing and Commissioning (DSITC) cost

and (b) the AMC charges for five year period, will be considered for arriving at the L1 bid. However, for purposes of calculation of ISD and RMD, only the DSITC cost will be considered.

SPECIAL CONDITIONS OF CONTRACT

1. Working /detailed /shop drawings /brochures shall be submitted and approval of MNRE / state govt. to be received before taking up the works on site.
2. Payment will be made as per the details given in **Annexure I**.
3. No workmen will be allowed to stay within NABARD's premises.
4. Electricity and water etc. will be provided by the Bank, free of cost.
5. Permission, if any required, from the local statutory authorities / bodies shall be obtained by the contractor at his own cost.
6. The Contractor shall engage the necessary workers for removal of debris, waste, dust etc. as required by the Engineer-in-charge without extra cost and also redo the damages caused to the building /works without any extra cost to NABARD and dispose of the debris at the designated place of BMC.
7. Work may have to be done during night-time to adhere to the time schedule for completion of the work, for which no extra charges will be paid.
8. The Contractor shall take out and maintain insurance policies as prescribed in General Conditions of Contract throughout the currency of the contract until the works are taken over by NABARD.
9. **The contractor shall notify the Bank about the Statutory Approvals/permissions, if any, to be taken in respect of installation of the Roof Top Solar Power plant and its subsequent operation and shall take full responsibility in obtaining the same as well as in complying with all statutory requirements.**
10. **During the defects liability period from the date of completion of works, the bidder is required to provide preventive maintenance of the all components, free of cost.**
11. When storage is being provided, the surroundings and premises where such storage is located as well as the work of other agencies shall be protected and not damaged; if any damage is caused, it has to be made good to the satisfaction of the Employer at the contractor's cost.
12. The contractor shall cover, secure and protect all the items of work, as directed, until the works are taken over by NABARD.
13. All the materials used in the work shall conform to the latest edition of BIS/ relevant Specifications and shall be of tested quality and subject to further tests, if required by NABARD, at no extra cost to NABARD.
14. Statutory deductions like income tax at source & GST TDS or other statutory deduction/s as applicable shall be deducted from bills /amounts payable to the contractor.

SAFETY CODE

1. First aid appliances including adequate supply of sterilized dressing and cotton wool shall be maintained in a readily accessible place.
2. An injured person shall be taken to a hospital without loss of time in cases where the injury necessitates hospitalization.
3. Hoisting machines and tackle if used in works, including their attachments, anchorage and supports shall be in perfect condition.
4. Inflammable and hazardous items shall not be allowed near the working site.
5. Adequate safety measures against fire, theft etc. will be taken by the Contractor.

ANNEXURE - 1
APPENDIX HEREIN BEFORE REFERRED TO

1. Defects Liability Period	05 years from the date of virtual Completion of work
2. Period of honouring the bills for payment	21 working days from the date of submission of bill
3. Date of commencement	Reckoned from the date of issue of Work Order
4. Date of completion	Within 2 months from the date of issue of Work Order
5. Liquidated damages for delay	@ 0.25% of value of accepted tender per week, subject to a maximum of 5% of value of accepted tender.
6. Security Deposit (S.D.)	5% of value of work & consists of EMD, ISD and RMD
7. Release of S.D.	After three months from expiry of 'Defects Liability Period'
8. Statutory deductions	Income Tax at source, GST TDS as per applicable law /rules
9. PAYMENT TERMS	10% on receipt of approval of designs, 30% on supply of materials to site, 55% after completion of work and balance 5% after defect liability period. Payments are subject to effecting various deductions.
10. Deduction on account of Minimum Generation Guarantee	Penalty as specified in clause no. 6.6.1 of technical specifications will be effected.

Annexure 2 – List of approved makes

Sr.no.	Item	Approved Makes
1	Solar PV Module	BHEL/ Tata BP Solar/ Jain Irrigation/ Photon/ Conergy India/ BEL/ EMMVEE or equivalent
2	Power Conditioning Unit	Refusol/ Delta/ Apollo Solar/ Emerson/ Kaco Solar/ Optimal Power Solutions/ SMA Solar or equivalent
3	Cables	Finolex/ Polycab/ Uniflex or equivalent
4	Distribution boxes	Legrand/ Schneider/ Hager or equivalent

Annexure – 3

Pre-Qualification Criteria and checklist of documents

S.No.	Criteria	Supporting document to be submitted
1	Successfully completed at least three works of designing, erection & commissioning of (1) Roof top grid connected solar power plant of Rs.4.5 lakh each for the Government / Semi-Government / Government of India Undertaking / Corporate Bodies, during last 5 years ending 31 May 2019.	Work orders and completion certificates in support of experience to be enclosed. Only those works which cost not less than Rs. 4.5 Lakh to be submitted.
2	The firm should be based locally in Mumbai and should have registered office of reasonable size with necessary equipment and supporting staff.	Document issued by Government body such as GST, shop act licence etc. to be enclosed.
3	Name and registered address	
4	The applicant should have at least 5 years' experience in planning, designing & execution of solar power plant)	Organisational set up of the firm including names, qualifications and experience of partners/ Associates and staff to be enclosed as per the enclosed format (Part 1 — Basic Information) and (Part III — Technical Personnel and Experience)
5	Important large projects executed during the last 3 years by the firm together with approximate cost of the individual project. The full postal address of the clients for whom the works have been executed shall also be given	As per the enclosed format Part II (a)
6	Important large projects on which the firm is engaged at present and their estimated cost (stages of work. Viz. — planning and construction) the full address of the clients shall be indicated against each project.	As per the enclosed format Part II (b)
7	Name and address of the Banker/s of the firm	Attach a separate neatly typed sheet on letter head

S.No.	Criteria	Supporting document to be submitted
8	Average annual financial turnover during last three years ending 31 March 2019 should be at least Rs.15 lakh	Attach a separate neatly typed sheet on letter head of Chartered Accountant or enclose copies of audited Balance sheets & Profit & Loss for the previous three financial years.
13	Proforma for electronic payment	As per enclosed proforma
14	Client confidential report of works and site <u>inspection of executed works</u>	Shall be done by NABARD

If the space in the proforma is insufficient for furnishing of full details, such information may be supplemented on separate sheet stating therein the part of the proforma and serial number. Separate sheets shall be used for each part of the application.

Note: The pre-qualification shall be subject to fulfilment of all the above conditions and at the sole discretion of Bank's decision.

Part – I (Basic Information)

1	Name of the Applicant/ Organisation and address of the registered office.	
2	Type of the Organisation (whether Sole Proprietorship/Partnership/Private Limited/Limited or Cooperative Body etc.)	
3	Name of the Proprietor/Partners/Directors of the Organisation/ Firm	a.
		b.
		c.
		d.
4	Details of Registration (Whether Partnership firm, Company, etc.) — Registering Authority, Date, Registration No., etc. mentioning the business / activity of the firm	
5	Experience in the field of solar power plant	years
6	Technical personnel available in the organization: Details to be furnished in Part-III	
7	Address of office through which the proposed work of NABARD will be handled and the name and designation of the Officer-in-Charge Adequate and satisfactory evidence to assess financial capacity of the Organisation to undertake the said work with names of Bankers and their full address. (Solvency certificate from the Bank and Income Tax clearance certificate shall be attached)	
8	Details of office(s) and its location, : Attach a separate sheet	
9	Machinery, Technical Personnel employed.	
10	Yearly turnover of the company, during last 3 years (year-wise)	
11	Ability to provide Bank Guarantee or	

	other equivalent forms of security from a Scheduled Bank.	
12	Whether any Civil Suit / Litigation arisen in the contracts executed during the last 5 years/being executed. If yes, please furnish the name of the project, employer, nature of work, contract value, work order and date and brief details of litigation.	

Attach a separate sheet, if required

Signature of the Applicant
With seal

Part-II - (Previous and Current works)

List of Important works executed by the firm during last Five years costing Rs .4.5 lakhs and above:

Note: Separate sheet to be furnished for different projects viz. (a) office buildings (b) residential buildings and (c) commercial buildings like hospital, factory, cinema etc.

Name of the work and location	Nature of work involved in the contract (e.g., Residential, offices, industrial, etc.)	Name of the owner Also indicate whether Government/ Semi Government/ Government of India Undertaking or Private Body with full address & full name of the official from the owns side for whom the work was executed *	Contract Amount	Completion Period	Stipulated Actual	Whether the work was left incomplete or contract was terminated from either side. Give full details.	Any other relevant information

*Email address of contact person of the client to be furnished

b) List of Important works on Hand costing Rs.4.5 lakhs and above:

Name of the work and location	Nature of work involved in the contract (e.g., Residential, offices, industrial, etc.)	Name of the owner Also indicate whether Government/ Semi Government/ Government of India Undertaking or Private Body with full address & full name of the official from the owns side for whom the work was executed *	Contract Amount	Completion Period	Stipulated Actual	Whether the work was left incomplete or contract was terminated from either side. Give full details.	Any other relevant information

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*Email address of contact person of the client to be furnished

Part III - Technical Personnel and Experience

List of Technical Personnel, giving details about their technical qualifications, experience etc.:

Name	Age	Qualification	Experience	Nature of works handled	Name of the projects handled costing more than Rs.4.5 Lakh.	Date from which employed in your organization	Any other remarks

Signature of the Applicant

NOTE : Indicate other points, if any, to show your technical and managerial competency to emphasise any important points in your favour.

Annexure-4

PROFORMA FOR ELECTRONIC PAYMENT

Details of Bank account to be furnished by the contractors/ service providers for effecting payment through ECS (e-payments)

Name and address of consultant with phone nos.

1. Name of the account holder
(As appearing in the Bank account)
2. Name of the Bank
3. Name of the Branch
4. Account number
5. RTGS/ NEFT/ IFS Code
6. Type of account (Savings, current, etc.)
7. PAN Number
8. GST Registration No.

Signature

Encl.: - (1) one cancelled cheque leaf

(2) Copy of PAN card

(3) GST registration Certificate

VOLUME II – PRICE BID
SCHEDULE OF QUANTITIES

SI No	Description of Work	UNIT	RATE	QTY	Amount
1	Design, supply, installation, Testing and commissioning of 15 kW (10 KW + 5 KW) , 2 nos. Roof Top Solar Power Plant to be installed in the 2 nd floor terrace. The major components will have to be strictly as per the approved makes indicated in Volume 1 of this tender, with five year defects liability period as per the Technical Specifications given in the tender, complete in all respects as directed.	Lump sum		Lumpsum	
Rate in words					
2	Comprehensive AMC charges for post defects liability period. Charges will be paid on half-yearly basis at the end of each half-year. The amount will remain same for five years and no escalation/ increase will be paid during that period.	Charges for per year		5 years	
Rate in words					
				TOTAL	
Total in words					

Accepted all terms and conditions.

Date :

Place :

AUTHORIZED SIGNATORY

SEAL