



(H.P Govt Energy Development Agency)
Block 8-A SDA Complex Kasumpti Shimla-171009

Website:- himurja.hp.gov.in

TENDER DOCUMENT

NO. HIMURJA (F-7)2/Off-Grid Power Plants /Pangi/2020-21

SUPPLY, INSTALLATION AND COMMISSIONING OF 250 WATT
Off-Grid SPV POWER PLANTS IN INDIVIDUAL HOUSEHOLDS IN
PANGI VALLEY OF CHAMBA DISTRICT AND OTHER TRIBAL
AREAS IN THE STATE OF H.P.

Issued By:

Name of the firm

Dated:

Date of opening: 25-06-2020

Time of opening: 3.00 PM

Price of document Rs. 10,000/-

Note: - Only technical Bids will be opened on the said date. The date of opening of the Price Bids of the technically successful bidders will be intimated separately after technical evaluation of the bids.

PART-I	SECTION- I to IV
PART-II	FINANCIAL BID

H I M U R J A
(H.P Govt Energy Development Agency)
Shimla-171009

TENDER NOTICE

Sealed tenders are hereby invited for Supply, Installation and Commissioning of approximately 1330 Nos of SPV Off-Grid Power Plants of 250 Wp capacity each to be installed in individual households in Pangi Valley of Chamba District and other Tribal areas of the State of H.P. The tender document can be purchased from the office of the undersigned by paying **Rs. 10,000/- only** in the shape of demand draft drawn in favour of Director, HIMURJA and payable at Shimla from 28-05-2020 to 24-06-2020. The tender document is also available on the website of HIMURJA i.e. **himurja.hp.gov.in** which can be downloaded. The cost of downloaded tender document is to be deposited with the tender during the submission of the bids or can be deposited through RTGS in HIMURJA account. The tender complete in all respect shall be received up to 1.00 PM on 25-06-2020 and shall be opened on the same date at 3.00 PM in the presence of tenderers or their authorized representatives who wish to be present at the time of opening of tenders.

Tender Document No.	Name of work.	Completion time	Tentative Cost of the Project	Earnest Money
NO. HIMURJA (F-7)2/ Off-Grid SPV Power Plants /Pangi/ 2020-21	Supply, Installation and Commissioning of approximately 1330 Nos of Off-Grid SPV Power Plants of 250 Wp capacity each to be installed in individual households in Pangi Valley of Distt Chamba and other Tribal areas of the State of H.P.	6 months	4.00 Crores	Rs. 8,00,000.00 (Eight Lacs only)

Terms and Conditions:

- i) Tenders without Earnest Money will not be considered.
- ii) HIMURJA reserves the right to reject any or all the tenders without assigning any reason.
- iii) System Integrators under NSM of SPV systems or manufacturers of SPV Systems, having sufficient experience of installation and commissioning of minimum 100 kWp aggregate capacity Off-grid SPV Power Plants to other SNA's/ Govt. Deptts or their organizations are eligible for tendering. Bidders will have to submit the proof of their eligibility in the shape of work order, commissioning and satisfactory operation reports along with the bid.

- iv) The bidder should have valid income tax clearance certificates for the F.Y. 2017-18, 2018-19 & 2019-20 and GST registration & GST clearance certificate for the F.Y. 2017-18, 2018-19 & 2019-20 etc. as required under the rules.
- v) The annual turnover of the firm should be atleast Rs 100.00 lac for each preceding three years i.e. 2017-18, 2018-19 & 2019-20.
- vi) Tender document fees is non-refundable.

Executive Engineer
HIMURJA, Urja Bhawan,
Kasumpti, Shimla-171009.

SECTION - I

INSTRUCTIONS TO BIDDERS

A. Introduction

1. Source of Funds

1.1 The Project has been funded by Government of Himachal Pradesh for F.Y. 2020-21.

2. Bidders Eligibility and Qualification

2.1 System Integrators of SPV systems or manufacturers of SPV Systems having sufficient experience of installation and commissioning of minimum 100 kWp aggregate capacity off-grid SPV Power Plant to other Nodal Agencies/ Govt. Department or their organizations are only eligible for tendering. The bidder should have income tax/GST registration etc. as required under the rules. The annual turnover of the firm should be minimum Rs 100.00 lacs for each preceding three years i.e. 2017-18, 2018-19 and 2019-20 supported with audited balance sheets of the firm for respective years. Bidder will have to submit proof of their eligibility with the bid in the shape of work orders, commissioning and satisfactory operational reports. In absence of sufficient experience the tender will be rejected straight way.

3. Bid Form

3.1 The Bidder shall complete the Bid Form and the appropriate Price Schedule furnished in the Bidding Documents, indicating the goods to be supplied, a brief description of the goods, quantity and prices. The rate should be quoted strictly as per scope of work and price bid.

4. Documents Establishing Bidder's Eligibility and Qualifications

4.1 The Bidder shall furnish, as part of its bid, documents establishing the bidder's eligibility to bid and its qualifications to perform the Contract if the bid is accepted.

5. The documentary evidence of the Bidder's qualifications to perform the Contract, if its bid is accepted, shall establish to the HIMURJA's satisfaction:-

(a) that, in the case of a Bidder offering to supply goods under the contract which the Bidder did not manufacture or otherwise produce, the Bidder has been duly authorized by the goods' manufacturer or producer to supply the goods in the purchaser's country.

6. The documentary evidence of conformity of the goods and services to the bidding documents may be in the form of literature, drawings and data, and shall consist of:

(a) a detailed description of the essential technical and performance characteristics of the goods;

(b) item-by-item details on the HIMURJA's Technical Specifications demonstrating the goods and services to that specification or a statement of deviations and exceptions to the provisions of the Technical Specifications. No change in the make and specifications will be allowed at the later stage.

7. Earnest Money

7.1 Tender must be accompanied by earnest money of Rs. 8,00,000/- (Eight Lac) in favour of Director, HIMURJA, Shimla through demand draft or RTGS. The Tender fees and E.M.D. can be transferred through RTGS in HIMURJA account with the following details:

Name of Bank: State Bank of India

Account Number: 55070883802

IFSC Code: SBIN0014639

7.2 The earnest money is required to protect the HIMURJA against risk of Bidder's conduct which would warrant the security's forfeiture. No interest will be paid on Earnest Money.

7.3 Unsuccessful Bidder's earnest money will be discharged/returned as promptly as possible subject to receipt of request letter and pre-receipt from the bidder, but not later than thirty (30) days after the expiry of the period of bid validity prescribed by the HIMURJA.

7.4 The successful Bidder's earnest money will be adjusted in the performance security.

7.5 The earnest money may be forfeited:

- a) If a Bidder withdraws its bid during the period of bid validity specified by the Bidder on the Bid Form.
- b) In case of successful Bidder fails to sign the Contract or to furnish required performance security.

8. Period of Validity of Bids

Bids shall remain valid for the period of twelve (12) months from the date of awarding the work and can be extended for a further period of six months.

9. Format and Signing of Bid

- 9.1 The Bidder shall submit only one original copy clearly super scribing "Original Bid".
- 9.2 The Bid shall be typed or written in indelible ink and shall be signed by the Bidder or a person duly authorized to bind the Bidder to the Contract. All pages of the bid, except for un-amended printed literature, shall be initialed by the person signing the bid.
- 9.3 Any interlineations, erasures, or overwriting shall be valid only if they are initialed by the person or persons signing the bid.

B Submission of Bids

10. Sealing and Marking of Bids

The bidders shall submit their bids in original and in the following manner:

- 10.1 The first envelope (A) must contain the requisite E.M.D. and it must be super scribed as the EMD on the envelope and must be properly sealed.
- 10.2 The second envelope (B) must contain the Technical bid and it must be super scribed as the Technical Bid on the envelope and must be properly sealed.
- 10.3 The third envelope (C) must contain the requisite Price Bid and it must be super scribed as the Price bid on the envelope and must be properly sealed.
- 10.4 All the above three envelopes (A,B,C) must be duly sealed in a single envelope duly marked as the original copy and the duplicate along with date of opening.
- 10.5 Every envelope should contain the name and address of the firm with the Number of the NIT, Technical Bid and Price Bid.

10.6 The technical bid in all circumstances should not contain any reference to the prices quoted.

11. Deadline for Submission of Bids

11.1 Bids must be submitted in the office in time i.e up to 1:00 P.M. on 25-06-2020

12. Late Bids

12.1 Any bid received by the HIMURJA after the deadline for submission of bids prescribed by the HIMURJA, will be rejected and/or returned unopened to the Bidder.

C Bid Opening and Evaluation

13. Opening of Technical Bids by HIMURJA

13.1 The HIMURJA will open the technical bids, in the presence of Bidders' representatives who wants to be present, at the time, on the date, and at the place specified in the Bid Data Sheet. The bidder's representatives who are present shall sign a register evidencing their attendance.

13.2 The Bidders' names, the presence or absence of the requisite bid security and such other details as the HIMURJA, at its discretion, may consider appropriate will be announced at the time of opening, except for late bids, which shall be returned unopened to the Bidder.

13.3 The technical bids shall be evaluated by the HIMURJA for assessing responsiveness, bidder's qualification and technical confirmation.

13.4 The bidders, whose technical bids are declared as technically responsive and qualified; shall be informed accordingly and their Price Bids shall be opened.

13.5 The bidders who do not qualify technically, their Price Bids shall not be opened and the same shall be returned to the Bidders.

13.6 Price Bids opening date shall be conveyed subsequently.

14. Clarification of Bids

- 14.1 During evaluation of the bids, the HIMURJA may, at its discretion, ask the Bidder for a clarification of its bid. The request for clarification and the response shall be in writing, and no change in the prices or substance of the bid shall be sought, offered, or permitted. If the firm does not respond to the clarification, the firm will be considered as non-responsive and the tender shall be rejected out rightly.
- 14.2 At any time prior to the submission of the tender HIMURJA may for any reason whether at its own initiative or in response to a clarification requested by the tenderers, modify the tender document by amendments. The amendment will be notified in writing or by fax to all prospective tenderers who have received the tender documents and will be binding on them. HIMURJA will bear no responsibility or liability arising out of non receipt of the same in time or otherwise.
- 14.3 The bidders can seek clarifications regarding the terms and conditions of the Tender document by sending an email on the official email of HIMURJA i.e. himurja-hp@nic.in

15. Evaluation and Comparison of Bids

- 15.1 HIMURJA will evaluate and compare bids which have been determined to be substantially responsive.
- 15.2 The detailed techno-commercial analysis of the bid shall be carried out by the Tender Committee of HIMURJA.

16. Contacting the HIMURJA

- 16.1 From the time of bid opening to the time of contract award, if any bidder wishes to contact the HIMURJA on any matter related to the bid, it should do so in writing.
- 16.2 Any effort by a Bidder to influence the HIMURJA in its decision on bid evaluation, bid comparison or contract award decisions may result in rejection of the Bidder's bid.

D Award of Contract

17. Award Criteria

- 17.1 HIMURJA will award the Contract in the following manner
- (a) 60% of the order of the total quantity will be placed on the Bidder whose bid has been determined to be substantially responsive and has been determined as the lowest evaluated bid.

(b) 40% of the order of the total quantity will be placed on the second lowest Bidder whose bid has been determined to be substantially responsive and has been determined as the second lowest evaluated bid. The order will be placed to the Bidder on the lowest evaluated rates i.e (L-1 rates)

(c) In case the Bidder at second lowest rates (L-2) is not willing to supply the material, then the Bidder at third place (L-3) whose bid has been determined to be substantially responsive will be offered to match the lowest rates and will be placed order for the 40% quantity. It is further clarified that the rates from the third lowest Bidder will only be sought in case the second bidder is not willing to match the lowest evaluated rates.

The allocation of the quantity to the first two bidders has been made in the instant case keeping in view of the fact that bulk of the quantity has to be supplied to the individual beneficiaries in the Pangri valley, Distt Chamba. It is pertinent to mention that the roads leading to the Pangri valley are cut off from the rest of the country during the month of November due to heavy snowfall and thereafter the material cannot be supplied till May next year. As this is a time bound project and has to be completed during the current financial year it has been decided to allocate the total quantity in the 60:40 ratio to the first two bidders whose bid has been determined to be substantially responsive.

18. HIMURJA's Right to Accept Any Bid and to Reject Any or All Bids

18.1 HIMURJA reserves the right to accept or reject any bid, and to cancel the bidding process and reject all bids at any time prior to award of Contract, without thereby incurring any liability to the affected Bidder or Bidders or any obligation to inform the affected Bidder or Bidders.

19. Signing of Contract

19.1 The successful Bidder will sign the contract within twenty one (21) days from the issue of award letter.

20. Bid Security:

The successful bidder shall deposit with the Director, HIMURJA, bid security equal to 10% of the contract value within 21 days from the date of issue of the award letter in the form of demand draft for the faithful execution of the contract. No claim shall be made against the purchaser in respect of interest on bid security. The Earnest money deposit in the form of bank draft can be adjusted against the Bid security and remaining amount is to be paid by the successful bidder through demand draft in favour of the Director HIMURJA, Shimla-171 009 payable at Shimla.

21. Performance Guarantee Security:

- 21.1 The Bid Security shall be treated as performance guarantee security. However, the firms can substitute the Performance Security by submitting a Bank Guarantee of equivalent amount valid for the remaining warranty period after one year from the successful installation of the systems. The purchaser shall be entitled and it shall be lawful on his part to forfeit the performance security deposit as per the contract in whole or in part in the event of any fault, failure of performance in all respects of the contract under reference or any other contract with the purchaser and purchaser shall also be entitled to deduct from the said deposit any loss or damage which the purchaser may suffer or be put to by reason of or due to any act or other default recoverable by the purchaser from the contract.
- 21.2 The Performance Security shall be denominated in the currency of the Contract.
- 21.3 The Performance Security shall be valid up to the warranty period and shall be released only after expiry of warranty period.

SECTION - II

GENERAL CONDITIONS OF CONTRACT

Brief History

The Off-Grid SPV Power Plants of 250 Wp capacity have been proposed to be provided to individual households in Pangi Valley in Chamba District and other Tribal areas in the State of Himachal Pradesh.

Accordingly, HIMURJA has prepared Tender Document No. NO. HIMURJA (F-7)2/Off-Grid SPV Power Plants /Pangi/ 2020-21 for the supply, installation and commissioning of approximately 1330 Nos. SPV Off-Grid Power Plants each of 250 Wp capacity in Pangi Valley in Chamba District of the State. The quantity can be increased or decreased. The components of systems such as PV modules, battery, PCU supplied under the project should conform to MNRE specifications issued from time to time. The components supplied by the firm can be got tested at NISE/ Other approved test centre of MNRE, GOI at manufacturers cost. In case any system / component fails, whole lot will be rejected and no payment will be released.

1 General Scope of Work:

The general scope under this contract includes verification of site feasibility, design, engineering, manufacture, shop testing, inspection, packing & forwarding, transportation up to project site, loading & unloading, storage, erection, preliminary testing at site, installation, commissioning, performance testing & handing over of SPV power Plants to the concerned beneficiaries in presence of representatives of HIMURJA. The firm can visit the site and discuss the locations where the Off-Grid SPV Power Plants are to be installed at their own cost if it is felt necessary by the bidder. The scope of the work will also include the following:--

- a) Warranty period of five years which will commence from the date of successful installation and handing over the SPV Off-Grid Power Plants to the individual beneficiary and acceptance by the concerned officer of HIMURJA. During warranty period, the supplier will carry out preventive, routine and breakdown maintenance of all the Off-Grid SPV Power Plants including replacement of any components including DC battery, PCU etc. which goes bad, free of cost.
- b) It includes mounting of modules, structure required for mounting the modules, Stand for DC battery and control panels and other miscellaneous works required for successful installation and commissioning of the Off-Grid SPV Power Plants including internal & external wiring
- c) The firm will give undertaking of the performance of Off-Grid SPV Power Plants to generate the required installed capacity as per Annexure VIII.

- d) The Bidder has to ensure the following after consultation with Project Officer, Pangi-
 - i) The availability of shadow free area for the installation of SPV Modules on roof top of the individual household.
 - ii) Indoor space for housing of batteries, control panel and facilitation for internal and external wiring as per site conditions.
- e) The quantum of the job can be increased or decreased and the bidder cannot claim any compensation on that part.

2. Incidental Services

2.1 The bidder may be required to provide any or all of the following compulsory services

- (a) Performance or supervision of the on-site assembly and/or start-up of the supplied Goods;
- (b) Furnishing of sufficient T&P and tools required for assembly and/or maintenance of the supplied Goods;
- (c) Detailed operations and maintenance manual will be supplied to different units as under:-
 - i) One set to Project Officer, HIMURJA, Pangi, Distt Chamba.
 - ii) One set to consignee
- (d) Performance or supervision or maintenance and/or repair of the supplied Goods, for a period of ten years or for time as agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract.
- (e) Training of the beneficiaries in handling the SPV Off-Grid Power Plants at site, in assembly, start-up, operation, maintenance and/or repair of the supplied Goods.

3. Payment

Payment shall be made in the currency specified in the Contract in the following manner:

Payment for Goods and services

- i) **On delivery:** Fifty percent (50%) of the contract price shall be paid on receipt of the goods and upon submission of bills duly verified by concerned Project Officer, Himurja, Pangi. Distt Chamba.
- ii) **On Final Acceptance:** Fifty percent (50%) of the contract price shall be paid after completion of the following formalities:-
 - Installation and successful handing over the Off-Grid SPV Power Plants to the individual beneficiary.
 - Completion of training of concerned beneficiaries in operation & maintenance.
 - Submission of installation certificates to be issued by the concerned beneficiary and duly verified by the concerned Project Officer, HIMURJA, Pangi, Distt Chamba.
 - The firm will have to set up a Service Centre in Pangi valley in Distt Chamba. H.P.

4. Subcontracts

The Supplier shall obtain approval of the HIMURJA in writing of all subcontracts to be awarded under the Contract if not already specified in his bid. Such notification, in his original bid or later, shall not relieve the Supplier from any liability or obligation under the Contract. The Proforma of manufacturer authorization is as per Annexure IX. Sub-letting of work will not be allowed. The sole responsibility of deliverables of the contract rests only with the bidder.

5. Completion Time Period

Delivery, installation and commissioning of the equipment should commence immediately after issue of Award letter. The supply should be completed within 4 (Four) months and installation & commissioning within next 2 (Two) months from the date of issue of Award letter. The whole work is to be completed within **six months** from the date of issue of Award Letter.

6. Liquidated Damages

- a) If the award is not completed in accordance with the contract within the stipulated time for completion, the delay should be extendable up to four weeks for which the owner shall be liable to pay liquidated damages (except force majeure events) and the said damages shall be payable by the Contractor on demand without there being any proof from the owner. The liquidated damages shall be payable @ 1 % per week, maximum @ 5% of the contract price i.e. @ 1% if delay is one week, @2% if delay is two week, @3% if delay is three week, @4% if delay is four week and @5% if delay is five week and will be recovered from any sums due to the successful bidder.
- b) In case the firm fails to deliver the material beyond 5 weeks of the Liquidated Damage period the firm will be issued Show Cause Notice to explain reasons for not executing the contract and will be given 10 days time to reply to the notice. Thereafter, the award will be rescinded without any further notice and the EMD deposited will be forfeited. Further, the firm will be blacklisted and will not be allowed to further participate in any of the tenders floated by HIMURJA.

All disputes relating to this contract shall be subject to the jurisdiction of courts in Shimla and **Chief Executive Officer, HIMURJA** shall be the sole Arbitrator.

7. Inspection and Tests

The Himurja authorized representative shall have access to the supplier work place at any time during working hours for purpose of inspecting the manufacturer of the equipment and the supplier shall provide all necessary facilities for such inspection. No supply shall be dispatched without prior inspection and approval by the Himurja and the charges on account of inspection shall be borne by the supplier. Inspection and tests prior to shipment of Goods and at final acceptance are as follows:

- 7.1 The inspection of the Goods shall be carried out to check whether the goods are in conformity with the technical specifications attached to the purchase order form and shall be in line with the inspection/test procedures laid down in the schedule of specifications and the contract conditions.
- 7.2 Manufacturer must have suitable facilities at their works for carrying out various routine and performance tests on the equipment.
- 7.3 All tests would be conducted as specified in the technical specifications approved by MNRE under NSM.

- 7.4 Approved supplier's drawings shall not be changed as provided in the bidding document without prior approval of the competent authority.
- 7.5 The HIMURJA shall have the right to inspect the supplier's premises and any part of the work at any time.
- 7.6 The supplier shall submit, within the time stated in the contract or in the programme, drawings showing how the power Plants are to be designed and any other information required for approval to HIMURJA.
- 7.7 Before the goods and equipment are taken over by the HIMURJA, the supplier shall supply operation and maintenance manuals together with drawings of the goods and equipment as built. These shall contain such details which will enable the HIMURJA to operate, maintain, adjust and repair all parts of the works as stated in the specifications. The manuals and drawings shall be in the ruling language (English) and in such form and numbers as stated in the contract. Unless and otherwise agreed, the goods and equipment shall not be considered to be completed for the purposes of taking over until such manuals and drawings have been supplied to the HIMURJA.
- 7.8 If the goods/services or any section fails to pass the Tests, the supplier may require such tests to be repeated on the same terms and conditions. All costs to which the HIMURJA may incur by the repetition of the tests under this sub-clause shall be deducted from the contract price.
- 7.9 If the HIMURJA and the supplier disagree on the interpretation of the test results each shall give a statement of his views to the other within 14 days after such disagreement arises. The statement shall be accompanied by all relevant evidence. The HIMURJA will review both the statements and render a final decision which shall be binding on the supplier.

For the System & Other Software, the following will apply:

The Supplier shall provide complete and legal documentation of hardware, all subsystems, operating systems, compiler, system software and the other software. The Supplier shall also provide licensed software for all software products, along with the software manuals whether developed by it or acquired from others. The supplier shall also indemnify the HIMURJA against any levies/penalties on account of any default in this regard.

8. Acceptance Certificate:

- 8.1 On successful completion of acceptability test, receipt of deliverables etc, and

after the HIMURJA is satisfied with the working of the Power Pack , the acceptance certificate signed by the supplier and the representative of the HIMURJA will be issued. The date on which such certificate is signed shall be deemed to be the date of successful commissioning of the systems.

- 8.2 The training shall be imparted for seven days after successful commissioning of project to the concerned beneficiaries/ group of beneficiaries for operation and routine maintenance of the Off- Grid SPV Power Plants

9. Spare Parts

Supplier shall carry sufficient inventories to assure ex-stock supply of consumable spares such as Cable lugs, Nut & bolts, Screws, Switches, fuses, indicating lamps & blocking diodes lights/bulbs etc. sufficient for five year operation and maintenance at individual sites be kept at disposal of concerned Project Officer, Pangi, Distt Chamba, H.P. List of consumable spares and mandatory spare parts and components shall have to be supplied with the bid.

10. Maintenance Service

a) During warranty period

Free maintenance services shall be provided by the supplier during the warranty period of five years. No payment will be made on this account as it is included in the cost of main equipment. This Maintenance Service will include:-

b) Preventive & Routine Maintenance:-

It includes minimum two visits of site which shall be done at least once in every six months and shall include activities such as cleaning of modules , checking of connections of panels, electric connections of arrays , control panels, inverter , charge controllers, DC battery connections , specific gravity of battery and any other activity that may be required for proper functioning of the System as a whole. Proper record will be maintained by the firm on this account for each beneficiary. Any spare and consumable required during period of five years will be supplied free of cost by the firm including replacement of any components which require replacement.

c) Breakdown and corrective maintenance:

Whenever a complaint is lodged by the user in the service centre , the firm shall attend to the complaint within a reasonable period of time and in any case the fault shall be corrected within a period not exceeding five days from the date

of lodging of complaint. Failure to arrange for the immediate repair/replacement will be liable for penalty and the amount of penalty will be recovered from the performance security of the firm.

11. Right to use defective equipment

If after delivery, acceptance and installation and within the warranty period, the operation or use of the equipment proves to be unsatisfactory, the HIMURJA shall have the right to continue to operate or use such equipment until rectifications of defects, errors or omissions by repair or by partial or complete replacement is made.

12. Operation & Maintenance

The firm will train the concerned individual household after installation, for the operation and routine maintenance of Off-Grid SPV Power Plants.

13. Site Visit

- a) The bidder in its own interest will conduct free visit to the site to study the preliminary feasibility and scope of work before quoting the rates otherwise it will be assumed that they have visited the site. The firm can contact the Project Officer, HIMURJA, Pangri and discuss the details of the installation sites. The Tenderers shall offer their complete design along with drawings for the Power Plants in their bids. The mobile number of Project Officer, HIMURJA, Pangri is 89889-03603 and email is bhardwajarun521@gmail.com
- b) The approved bidder can visit the site after issue of Award letter and prepare final feasibility report and submit to this office duly signed by concerned authorities and representative of HIMURJA. In case of deficiency in successful commissioning of power Plants, HIMURJA may impose penalty and forfeit the bid security.

14. Packing

The Supplier shall provide such packing of the Goods as is required to prevent damage or deterioration during transit to their final destination as indicated in the Contract. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit and open storage. Packing case size and weights shall be taken into consideration, where appropriate, the remoteness of the Goods' final destination and the absence of heavy handling facilities at all points in transit.

15. Specifications

All the parts of the system will confirm to MNRE/ BIS specifications and as per the detailed specification of various components of Off-Grid SPV Power Plants to be installed in HP. All the terms and conditions and specifications prescribed in

the tender document and in the guidelines issued by MNRE shall form the integral part of supply order. The minimum technical requirement / standards for SPV Power Plants to be deployed will confirm to Annexure-I (Part-A) of operational guidelines for implementation of Off- Grid and decentralized solar application during 12th plan period issued vide administrative approval No. 30/11/2012-13/NSM dated 26.05.2014 by MNRE for PV modules, balance systems, warranty, identification and traceability etc and subsequent amendments issued from time to time.

16. Price Low Clause

If at any time during the supply period, the Firm offers similar SPV Power Plants of same capacity to some other customers on similar terms and conditions and technical specifications at reduced rates in respect of items contained in this order, then such reduced rates will also be applicable to this organization and the benefit will have to be passed on to HIMURJA.

17. Tools & Tackles and Spares :

S No	Item Description	Quantity (nos.)
1	Screw Driver set	1
2	Spanner set	1
3	Cutting Plier	1
4	Soldering Iron	1

After completion of installation & commissioning of the Off- Grid SPV Power Plants, necessary tools & tackles are to be provided free of cost by the contractor for maintenance purpose.

BROAD SPECIFICATIONS OF 250 W_p POWER PLANTS

- SPV Module (with Module Mounting Structure) : 250 W_p
- Battery : 24V/80Ah Lithium Ferrophosphate battery
- Solar Charge Controller : 24V,12.5 A
- Solar Inverter: 24V, 300VA, Pure Sine wave (THD<5%)
- Load : 100 Watt load for 5-6 Hours/ day.

Suggested Indicative Loads*:

- 5 Nos. of White Light Emitting Diode (W-LED) Luminaire of 9 Watt each for 5-6 Hrs. / day
- LED TV-1 No of approximate 40 Watts
- Mobile Phone 14 Whr
- Misc Load – 10 Watt

Cumulative Load = 95 Watts + Mobile Load

For 5 hours operation the total Watt Hr = $95 \times 5 = 475$ Whr

Total Load = $475 + 14 = 489$ Whr say 500 Whr

SECTION -III

Annexure- I

TENDER FORM

1. Tender No:
2. Name of the work:
3. Last date and time of submission of the documents:
4. Amount of Earnest Money Deposit:
DD and Date
5. Date and time of opening of the tender:
6. Place of opening of the tender:
7. Name and status of firm/company
individual to whom the tender document
is issued :
- 8 Validity of tender
- 7 Name of the authorized representative to
Sign the tender

(Signature of Tenderer)

with designation

- All the columns must be filled by the tenderer.

GENERAL PARTICULARS OF THE TENDERER

1. Name of tenderer:
2. Address for correspondence:
3. Telephone No. and Fax No.
4. Name and Designation of the Authorized Representative of the tenderer to whom all the references shall be made:
5. Amount and reference of E.M.D. Deposited (Drawn on Bank & D.D. No.& date)
6. Financial capability of the contractor/ Firm for carrying out the work:
7. Has the firm ever been debarred by any Govt. Deptt/Agency/organization for undertaking any work:
8. Details of offer (Mention No of pages):
9. Reference of any other information attached by the tenderer:
10. Authorized representative for any correspondence
11. Whether service center for after sales service set up in the state, give address

(Signature of Tenderer)
with designation

EXPERIENCE OF THE TENDERER

Please fill in the information about the similar projects undertaken over the last five years

1. Name of organization by whom work was awarded. Please give Project wise detail of projects installed/ commissioned:-

2. Name and location of the works.

3. Total amount of Contract.

4. Year of Award.

5. Detail of involvement in
work as an individual or as a
company.

6. Was the work completed satisfactorily
and within the stipulated time period.

7. Particulars of evidence enclosed in token of above

8. Whether list of past supplies enclosed as per Annexure V

9. Whether past performance obtained from HIMURJAs / utilities enclosed

(Signature of Tenderer)

with designation

DECLARATION BY THE TENDERER

I/We _____

(herein after referred to as the tenderer) being desirous of tendering for the design, manufacture, supply, erection, testing , installation and commissioning of Off- Grid SPV Power Plants of 250 Wp, 1330 Nos in Pangi Valley in Chamba District and other Tribal areas of HP including warranty period of 5 years as shown in scope of tender specification , have fully understood the nature of the work and carefully noted all the terms and conditions, specifications etc. as mentioned in the tender documents, hereby declare that:-

- 1 The tenderer is fully aware of all the requirements of the tender documents and agrees with all the provisions of the tender documents.
- 2 The tenderer is capable of executing and completing the work as required in the tender.
- 3 The tenderer accepts all risks and responsibilities directly or indirectly connected with the performance of the tender.
- 4 The tenderer is financially solvent and sound to execute the tender.
- 5 The tenderer is sufficiently experienced and competent to perform the contract to the satisfaction of HIMURJA.
- 6 The information and statements submitted with the tender are true.
- 7 The tenderer has not been debarred from similar type of work by any Govt Dept./Agency/Organization.
- 8 This offer will remain valid for acceptance for 12 (twelve) months from the date of opening of the tender.
- 9 The tenderer gives the assurance to execute the tendered work as per the specifications, terms and conditions and in exact configuration of the sample submitted on award of the work.

(Signature of Tenderer)

with designation

SCHEDULE OF PAST SUPPLIES OF LAST FIVE YEARS

S No	Description	Supply order No. and date	Name of HIMURJA / Agency	Date of Supply/ completion as per order	Actual date of supply/ commissioning on

(Signature of Tenderer)

with designation

Note:-

Performance certificate from the concerned utilities along with their communication address, e- mail and FAX No. is required for authentication of certificates.

Annexure- VI

GUARANTEED TECHNICAL PARAMETERS (for Off- Grid SPV Power Plants)

S.No.	ITEM	PARTICULARS
1	SOLAR PHOTOVOLTAIC MODULES	
1.1	MANUFACTURER	
1.2	Type	
1.3	P max	
1.4	Module EFFICIENCY	
1.5	Whether meets IEC- 61215 2 nd edition and IEC 61730 standard. Whether Test certificates submitted along with the bid	
1.6	Warranty of modules	
2	PCU	
2.1	TYPE / Make	
2.2	AC Output Voltage	
2.3	DC input voltage range	
2.4	DC operating voltage	
2.6	Efficiency	
2.9	Protection features	
2.10	Overload capacity	
2.14	DC input overload capacity	
2.15	Controller PWM/MPPT type	
3	Battery	
3.1	Type	
3.2	Manufacturers name	
3.3	Capacity Ah at C/10 rate	
3.4	DOD %	
3.5	Rated normal voltage	
3.6	Rated maximum voltage	
3.7	Rated minimum voltage	
3.8	Applicable standard	
3.9	Ampere hour efficiency	
3.10	Whether meets IEC / IS standards	

Signature of the Bidder _____

FORMAT FOR BANK GUARANTEE AGAINST PERFORMANCE SECURITY

(To be stamped in accordance with Stamp Act if any, of the Country of the Issuing Bank)

Bank Guarantee No. :

Date:.....

To (Name of the HIMURJA)

Whereas (Name of the HIMURJA)

hereinafter called “The supplier” has undertaken, in pursuance of Contract No.....-dated 20..... to supply (Description of Goods and Services) hereinafter called “the contract”.

AND WHEREAS it has been stipulated by you in the said contract that the supplier shall furnish you with a Bank Guarantee by a recognized Bank for the sum specified therein as security for compliance with the Supplier’s performance obligations under the contract for Operation, Maintenance and Repairs of the entire system including cost of spares for a period of 5 years from the date of issue of acceptance certificate by the HIMURJA.

AND WHEREAS we have agreed to give the Supplier a Guarantee

THEREFORE WE hereby affirm that we are Guarantors and responsible to you on behalf of the Supplier, up to a total of Rs..... (Amount of guarantee in words and figures) being 10% of the total cost of contract value and we undertake to pay you, upon your first written demand declaring the Supplier to be in default under the contract and without cavil or argument, any sum or sums within the limit of Rs..... (Amount of guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

This guarantee is valid until..... day of.....20.....

Signature and Seal of Guarantors

.....
.....
Date:.....20.....

Note :

- 1. SUPPLIER SHOULD ENSURE THAT SEAL AND CODE No. OF THE SIGNATORY IS PUT BY THE BANKERS, BEFORE SUBMISSION OF THE BANK GUARANTEES.

UNDERTAKING TO BE FURNISHED BY BIDDERS

We, M/S with
Registered office at undertake to
ensure generation of electrical energy from the SPV Off-Grid Power Plants of 250 Wp capacity
to be installed by us as per the details / technical specifications given in Tender document.

Authorized Signatory

Name of the Company with stamp

MANUFACTURERS' AUTHORIZATION FORM

No. _____

dated

To

Tender No. HIMURJA2/ (F-7) Off- Grid SPV Power Plants /Pangi/2020-21

Dear Sir:

We _____ who are established and reputable manufacturers of _____ (name & descriptions of goods offered) having factories at _____ (address of factory) do hereby authorize M/s _____ (Name and address of Agent) to submit a bid, and sign the contract with you for the goods manufactured by us against the above NIT.

We hereby extend our full guarantee and warranty for the goods and services offered for supply by the above firm against their project.

Yours faithfully,

(Name)

(Name of manufacturers)

Note: Their letter of authority should be on the letterhead of the manufacturer and should be signed by a person competent and having the power of attorney to legally bind the manufacturer. It should be included by the Bidder in its technical bid.

SECTION-IV

Price Schedule of Main Equipment

Annexure F-1

S.No.	Description	Qty	Rate	Amount
1	FOR cost of 250 Wp Off-Grid SPV Power Plant complete in all respect as per clause No. 1 of GCC & Technical Specifications including supply, installation and handing over to the individual households in Pangi valley in Distt Chamba and other Tribal areas of H.P. with a warranty period of five years after successful commissioning.	1330 Nos (approx.)		

Note:-

- i) FOR cost will be quoted including all applicable taxes, duties.
- ii) Bill of material will be supplied separately.
- iii) Cost breakup of the power pack is as per Annexure-F-2 (attached).

Signature

COST BREAK-UP OF POWER PACK

Annexure F-2

S No.	FOR cost of	Qty	Rate (Rs.)	Amount (Rs.)
1	SPV modules of 250 Wp with RF identification tag.	1 Set		
2	Mounting structure for above as per specs.	1 set		
3	Battery : 24V/80Ah Lithium Ferrophosphate battery	1 set		
4	Solar Charge Controller : 24V,10 A OR 12 V, 20 A	1 Set		
5	Solar Inverter: 24V /12 V, 300VA, Pure Sine wave (THD<5%)	1 Set		
6	White Light Emitting Diode (W-LED) Luminaire (9.0 Watts)	1 No.		

Signature



(H.P Govt. Energy Development Agency)

Tender Notice

Sealed tenders are hereby invited for the supply, installation and commissioning of approximately 1330 Nos. Off- Grid SPV Power Plants having a capacity of 250 Wp each in individual households in Pangi Valley in Chamba District and other Tribal areas of Himachal Pradesh, to be supplied and installed in conformity with MNRE, GoI guidelines/specifications under National Solar Mission. The tender documents will be available for sale during office hour's w.e.f. 28-05-2020 to 24-06-2020 or the same can be downloaded from HIMURJA website i.e *himurja.hp.gov.in* and shall be received / submitted up to 1.00 PM on 25-06-2020 The tenders will be opened on the same date i.e.25-06-2020 at 3.00 PM in the office of undersigned in the presence of bidders or their authorized representatives who so ever want to be present during the opening of the tender. The cost of tender document is Rs. 10,000/- only. For detailed NIT, visit HIMURJA website: *himurja.hp.gov.in*

Executive Engineer,
HIMURJA, Urja Bhawan,
Kasumpti Shimla-171009.