



(H.P Govt. Energy Development Agency)

Notice Inviting Tender

Sealed tenders are hereby invited from the MNRE approved Manufacturers/System Integrators of SPV Street Lights for supply and installation of SPV Street Lights (10000 nos. tentative) in the State of Himachal Pradesh under Full cost Scheme/ National Solar Mission. The tender document No. : HIMURJA (F-7) SPVSLS/18-19- will be available for sale from 19-3-2018 to 07-04-2018 and shall be received up to 2.00 P.M. on 09-04-2018. Tender would be opened on the same date i.e. 09.04.2018 at 3.00 PM in the office of undersigned in the presence of bidders or their authorized representative 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.nic.in.**

Executive Engineer(E),
HIMURJA, Urja Bhawan,
Kasumpti, Shimla- 171009.



(H.P Govt. Energy Development Agency)

TENDER DOCUMENT

No. : HIMURJA (F-7) SPVSL/18-19-

HIMURJA
H.P. Govt. Energy Development Agency
8-A,SDA Complex, Kasumpti,
Shimla-171009. Himachal Pradesh, INDIA
Telephone No: 0177- 2628074
Fax No: 0177-2622635
Website:- Himurja.nic.in

TENDER DOCUMENT

No. : HIMURJA (F-7) SPVSLS/18-19-

For

Supply and installation of SPV Street Lighting Systems in various
Gram Panchayats/ cluster sites in H.P. under
Full Cost/National Solar Mission

Issued By:

Name of the firm

Dated:

Date of opening: 09-04-2018

Time of opening: 3 P.M.

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 successful bidders will be intimated separately after technical evaluation.

PART-I- Technical Bid	SECTION-I SECTION-II
PART-II- Financial Bid	PRICE BID



HIMURJA
(H.P. GOVT. ENERGY DEVELOPMENT AGENCY)
SHIMLA-171009

Tender Notice

Sealed tenders are hereby invited in from the MNRE approved manufacturers/System Integrators under NSM of SPV Street Lights for the supply and installation of SPV Street Lights in Gram Panchayats/ cluster sites in H.P. under Full Cost/National Solar Mission. The tender document No. HIMURJA (F-7SPVSLS/18-19- will be available for sale from **19-3-2018 to 07-04-2018 and shall be received up to 2 PM on 09-4-2018** which will be opened on the same date at 3 PM. in the presence of the bidders or their authorized representatives who may like to be present. The cost of tender document is Rs.10,000/-only. The Tender Documents can also be downloaded from the website of HIMURJA i.e. himurja.nic.in. The cost of the documents in that case can be deposited along with the tender in the shape of demand draft in favour of Director, HIMURJA, Shimla Separately.

Document No.	Description	Tentative Qty.	Earnest Money
No: HIMURJA (F-7)SPVSLS- 18-19-	SPV Street Lighting Systems (LED TYPE) for 7W, 9W, 12W,15W and 18W	10,000 Nos. (Tentatively)	15,00,000/-

Terms and Conditions:-

- (i) Tenders not received on prescribed form and manner shall not be considered and will be rejected out-rightly. Tenders without earnest money will not be considered. The earnest money is based upon the tentative quantity and in case the quantity is increased, the firms will have to deposit the EMD accordingly.
- (ii) HIMURJA reserves the right to reject any or all the tenders without assigning any reason. Conditional / telegraphic tenders will not be accepted.
- (iii) The Tenderers should be manufacturer/System Integrator approved by MNRE under NSM who must have designed, manufactured, supplied, tested SPV Lighting Systems in MNRE Programmes to other nodal agencies for at least last three years.
- (iv) The bidder should have income tax/GST clearance, GST registration etc. as required under the rules. Balance sheet of 2014-15, 2015-16 and 2016-17 are required with tender.

Executive Engineer(E)
HIMURJA, Urja Bhawan,
Kasumpti, Shimla- 171009.

PART-I
SECTION- I
INSTRUCTION TO BIDDERS

1 SCOPE OF WORK

This specification covers design manufacture, supply, loading and unloading , transient insurance , storage at site/ panchayat level / any suitable places before installation and commissioning of SPV Street Lighting Systems at destination stations in Gram Panchayats / cluster sites in H.P.. The quantity is however tentative and may increased or decreased as per the actual requirement.

S No	Description	Tentative Qty.
i	Solar Photovoltaic Street Lighting Systems (LED- Type) 7W, 9W, 12W,15W and18W.	10,000 Nos

The minimal technical requirements and quality standards for solar photovoltaic (PV) systems under National Solar Mission (NSM) will be strictly **as per Annexure -1(Part-A) of operational guidelines for implementation of Off-Grid and decentralized solar application during 12th plan period issued vide administration approval no. 30/11/2012-13/NSM dated 26.05.2014** by MNRE for PV modules, balance systems, warranty , identification and traceability etc. SPV Street Lighting Systems include installation and commissioning at different sites anywhere in the State of Himachal Pradesh.

2 ELIGIBILITY

The manufacturers whose SPV Street Lighting Systems for any configurations have been tested and approved by the NISE for the SPV programme of MNRE under NSM are only eligible for tendering. SPV modules and other components will be as per quality standards indicated in Annexure-3 from MNRE authorized testing laboratories / centers for different requirements/ latest amendments. No deviation to the specification will be permitted. The bidder should have income tax/GST clearance, GST registration etc. as required under the rules. Balance Sheet of last three years is required with the tender to assess the financial capability.

3. PAST EXPERIENCE

The tenderer should be a manufacturer/system integrator who must have designed, manufactured, supplied, tested SPV Lighting Systems for similar projects to other Nodal agencies for at least last three years. The tenderer must have following kind of experience.

- i) Should have supplied minimum 2,000 Nos., of SPV street lighting systems to other organizations as per MNRE specification in last three years. The past

performance duly signed from concerned nodal agency / utility is required with tender.

- ii) Should have financial stability to meet the financial obligations pursuant to the scope of the works and should have executed yearly average business with annual turnover in SPV of 3 Crores per year for the year 2014-15, 2015-16 and 2016-17.
- iii) Should have adequate plant and manufacturing capacity available to perform the works properly and expeditiously within the stipulated time period.
- iv) Should have adequate field service set up to provide necessary repair and maintenance of the systems at block level. The successful firm will have to set up minimum **one service centre** in H.P. i. e. preferably at Shimla, Kangra or at Mandi immediately after the award. To ascertain the establishment of service centre, copy of MOU with concerned land lord in case of rented premises or papers of land / building purchased will be submitted. In case the centre is not successfully established before completion of delivery period of SPV lighting systems, no payment will be released to the firm till the Service centre is set up.
- v) Should have established quality assurance systems and organizations designed to achieve high level of equipment reliability, both during the manufacturing and field installation activities.
- vi) Should have latest test certificate of **successful testing of complete SPV street Lighting System from MNRE approved test centers** and other test certificates of module and other components as per MNRE guidelines. The test certificates prior to commencement of NSM will not be acceptable. However the firm will have to submit all the test certificates for SPVSLS,s of different configurations before making the agreements.

4 SAMPLE OF SPV LIGHTING SYSTEM

The complete sample of SPV Street lighting systems (**Except Poles**), alongwith modules should be submitted with HIMURJA on the date and time of submission of the tenders. Tenders not accompanied with samples will be rejected out-rightly and will not be opened. A sample of instruction manuals for operation and maintenance is submitted with the sample of SPV Lighting systems.

5 OTHER TERMS AND CONDITIONS

- i) The offer should be submitted on the forms issued with the tender. The technical bids will be opened in the first instance and the financial bids of only those firms

will be opened thereafter, who qualify technically. The make of the equipment offered to be supplied (battery, module, LED etc.) should be clearly mentioned in the technical bid otherwise the bids shall be rejected.

- ii) Telegraphic and conditional tenders will be rejected. The quantity can be increased or decreased as per actual requirement. To execute the orders in time, HIMURJA reserves the right to award the complete work to one firm or can place orders upon, more than one firms without seeking any consent of the lowest responsive bidder.
- iii) The firms who have past experience of supply of SPV Street lighting systems to any State Nodal Agency or other organizations and have enclosed past performance will only be considered for supply order.
- iv) The acceptance of the tenders will rest with CEO, HIMURJA, Shimla-171009, who does not bind himself to accept the lowest tenders and reserves the authority to reject all the tenders received without assigning any reason. All the tenders in which any of the prescribed conditions are not fulfilled or are incomplete in any respect are liable to be rejected. In case of any doubt about technical specifications, MNRE specifications will prevail.

6 SUBMISSION OF BIDDING DOCUMENTS

Sealed tenders in duplicate containing Techno- Commercial Bid along with requisite earnest money (i. e. Part –I), Price bid (i.e. Part –II) will be received as per NIT . Techno – Commercial bid i.e. Part –I will be opened in the presence of the tenderers or their authorized representatives who may like to be present. Price bid i.e. Part II will be opened later on after technical and commercial evaluation. Tenders not received on prescribed form / manner and as per terms and conditions stipulated in Tender Notice shall not be considered and will be liable for rejection straightway.

7 SEALING AND MAKING OF TENDERS

- (a) The tender must be complete in all technical and financial respect and should contain requisite certificates, informative literature etc. as required in the specification.
- (b) The tenderers should submit price bid duly signed on the original financial bid attached with these tender documents.
- (c) The first envelope should contain Techno – Commercial bid i.e. Part –I and

Earnest Money, Test Certificate, technical specification etc. The requisite Earnest Money Deposit shall be in the form of Bank Draft, which should be drawn in favour of DIRECTOR, HIMURJA, SHIMLA.

- (d) Second sealed envelope should contain price bid in Part – II only. It should be super scribed Price Bid. The two envelopes should be enclosed in a third envelope.
- (e) The bids must be submitted by the bidder at the date, time and address specified in the tender notice/tender documents.
- (f) Any bid received after the deadline for submission of bids prescribed by the HIMURJA, will be rejected and will be returned unopened to the tenderer.
- (g) At any time prior to the submission of the tender or prior to the opening of the financial bid, HIMURJA may for any reason, whether at its own initiative or in response to a clarification requested by the tender, may modify the tender documents by amendments. The amendment will be notified in writing or by fax to all prospective tenderer 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.
- (h) Technical particulars will be offered as per Annexure VI by the tenderer. On the basis of technical particulars, test reports, past experience and performance reports, technical evaluation will be done.

8 EARNEST MONEY

- (v) Tenderers must enclose a demand draft of EMD amounting to **Rs. Fifteen Lacs (Rs. 15,00,000=00)** in the favour of Director, HIMURJA, Shimla, payable at Shimla-9, Kasumpti and should be kept in the technical bid. The earnest money in the shape of Bank Guarantee or any other form will not be entertained. No interest shall be payable on the amount of earnest money. The tenders of those manufacturers/firms who do not deposit the earnest money in the prescribed manner will be summarily rejected and tenders will not be opened. The earnest money of successful bidder will be treated as performance security and returned after completion of one year from the date of completion of supply of initial order. **The earnest money is based upon the tentative quantity and in case the quantity is increased, the firms will have to deposit the EMD accordingly.**

9 VALIDITY OF BIDS

The bid will remain valid for the period of 12 months from the date of opening of it and the same can be extended beyond 12 months if required. In case any bidder withdraws its bid within the validity period, or fail to accept the order within validity, the earnest money will be forfeited.

10 BID PRICES

The tenderers shall quote FIRM prices in Indian Rupees as per price bid . The rates must be quoted F.O.R. destination stations in HIMURJA offices/ Gram Panchyats/ cluster sites anywhere in H.P. inclusive of all taxes, duties and freight & Insurance. The tenderers shall indicate price breakup on the appropriate price schedule in the price bid separately showing ex-works cost, ED, GST, etc. Insurance against loss or damage incidental to manufacture or acquisition and transportation shall be included in the prices. The manufacturer will issue excise gate pass for the products sold under subsidy programme of MNRE. The prices be quoted as per price bid from Annexure I & II in Part- II.

11 EVALUATION OF BIDS AND AWARD OF WORK

a) Commercial

No commercial deviation is acceptable. Tenderers will submit No deviation certificate of commercial clauses.

b) Technical

The guaranteed technical parameters of SPV Lighting Systems will be quoted as per Annexure VI alongwith drawing showing different components and complete bill of material by the bidder .

Evaluation will be done on the basis of quoted values of technical particulars, test certificates, Past performance and experience. The bidders are required to quote specific values, merely writing “ as per IS or as per specification, will not be entertained .The work of supply and installation / commissioning will be awarded to successful bidders whose bid will be determined technically and commercially acceptable on the basis of total FOR cost including installation and commissioning charges for street lights .

-end-

PART-I
SECTION II
GENERAL TERMS AND CONDITIONS

1 CONTRACT AGREEMENT

The Firm will have to enter into a Contract Agreement with this Agency for carrying out the aforesaid work, within 21 days of the receipt of the supply order. Only the Contractor or his authorized representative of executive level will be allowed to sign the Contract Agreement. In case Contract Agreement is not entered within the stipulated period the supply order will be cancelled without any further notice and the earnest money deposited with HIMURJA will be forfeited.

2. Performance Security

The performance Security @ 10% of the contract value will be deducted from each bill of the contractor; however the Earnest Money deposit by the bidder at the time of bidding shall be adjusted towards the performance security. The additional amount of performance security over and above the earnest money deposit shall be deducted from the concerned bill. After six month of the completion of the job in totality, the firm can replace the performance security deducted in cash by a equivalent amount on Bank guarantee issued by any nationalized bank either located in Himachal Pradesh or endorsed by the branch of that bank located in H.P. and valid for a period of Five year from the date of successful installation and commissioning of the lights. The performance security will be released after the completion of the warranty period. The proceed of the performance security shall be payable to HIMURJA as compensation for any loss resulting the suppliers failure to complete its obligations under the contract.

3 TERMS OF PAYMENTS

The Payment will be made as under:-

- a) 70 % payment will be released on the receipt of SPV street lights by the concerned Pradhans of Gram Panchayats / owner of SPV street Lights and production of bills duly verified by the Sr Project Officer/Project Officer of HIMURJA in token of receipt of the material in full and good condition and as per the specifications. Samples of Street lighting systems will be collected from site by the representative of MNRE for testing in MNRE approved test centre.
- b) Eligibility for 30 % payment will be after completion of following formalities:-

- i) Erection testing and commissioning of SPV Street Lighting Systems.
- ii) Receipt of test report of MNRE testing centre in case of samples collected from site by the MNRE representative.
- iii) Completion of training in concerned Panchayat/ location.
- iv) Establishment of service centre with telephone No. / Toll free No.

The payment will be released after submission of consolidated commissioning certificates from the concerned Gram Panchayat Pradhan duly verified by the concerned Sr. Project officer/Project Officer, HIMURJA . **Commissioning certificates are required along with on spot photographs in token of actual installation of street Lights in respective field units of each Project officer.** The photograph should show the image of SPV street light, representative of the firm and the beneficiary. The firm will supply hard and soft copies of detail showing location, Name of beneficiary , Serial Nos. of module, luminary and battery with its unique codification No to be notified in detailed order.

- c) The 10% amount deducted as performance security will be released to the firm after six months from the date of installation of the systems on submission of Bank Guarantee or equivalent amount issued by any nationalized bank either located in Himachal Pradesh or endorsed by the branch of that bank located in H.P. valid for a period of five years to cover warranty period.

3 LIQUIDATED DAMAGES

In case the supply is delayed beyond the stipulated date of delivery, the liquidated damages not amounting to penalty @ ½ % per week or part thereof of the undelivered portion of the supply, subject to maximum of 5 % of the contract value (FOR Cost) shall be recoverable as a predetermined loss caused to HIMURJA due to delayed supply as a sum presently due and payable without any reference to the court or Arbitration / adjudication. The claim under this clause is without prejudice to other claims / rights of HIMURJA in this contract such as loss of subsidy etc.

5 DELIVERY PERIOD

The supply and installation work of SPV street lights shall be completed within stipulated period as shown below:-

S No	Description	Tentative Qty.	Time of completion
i	Supply and installation of SPV Street Lights (SLS) as per scope of work	10,000 Nos.	Three months from the date of issue of supply orders.

The time and date stipulated in the tender for the supply of equipment entrusted to the supplier shall be deemed to be the essence of the contract failing which the job will be got done at the risk and cost of the supplier from any other vendor / Agency which will include the loss of subsidy to be claimed from Govt. by HIMURJA. **No extension of time will be given except in exceptional cases such as Force Majeure conditions or under other circumstances beyond the control and after approval of competent authority.**

6 TEST AND INSPECTION

The manufacturer/firm will inform HIMURJA, 07 days in advance for the inspection of the SPV lighting Systems. The inspection of the complete systems will be carried out at the works/authorized testing facility of the manufacturer strictly as per guide lines of MNRE under NSM who will provide necessary testing facilities. One sample of SPV Modules for every lot of 1000 systems shall be randomly selected and will be got tested at NISE/ERTL or any other approved laboratory of MNRE. The testing charges shall be borne by the supplier. The testing will be witnessed by the representative of HIMURJA. Additionally samples of street lighting system will be collected by the representative of MNRE in presence of HIMURJA representative from the supplied material for testing in MNRE approved test centre also from site. It will be the responsibility of the bidder to bear the cost of to and fro transportation charges of the samples collected from site to MNRE approved testing centre.

7 SPARES AND CONSUMABLES

The manufacturer / firm should continue to provide spare parts and services to the users after the expiry of the warrantee period of five years through its service centers established in the state. During the warranty period all spares and consumables will be supplied / replaced free of cost by the firm. Two fuses will be provided spare with each system.

8 GUARANTEE & WARRANTY

The mechanical structures, electric works including charge controller storage batteries etc. and over all workmanship of the SPV systems must be warranted against any manufacturing / design/ installation defects **for a period of five years.** PV modules used in solar systems must be warranted for their output peak watt capacity which should not be less than 90 % at the end of 10 years and 80 % at the end of 25 years. An undertaking on non- judicial stamp paper will be obtained from the concerned firm. In addition to the guaranty of the SPV Lighting Systems, the manufacturer/firm shall guarantee satisfactory performance of the system and shall be responsible for the period for any defect that may develop. Such defects shall be removed at their own cost when called upon to do so by HIMURJA within specified period.

9. INVOICE AND DISPATCH:

The firm will inform this office through FAX when the consignment is ready for inspection. The authorized representative of HIMURJA will be deputed thereafter to inspect the whole consignment. The inspection of the complete system will be carried out at the works of the manufacturer at his cost as per MNRE specifications and guidelines. After successful testing, dispatch clearance will be given. The bills are to be raised panchayat / location wise . Following documents are to be supplied to the consignee :-

- i) Original invoice in duplicate
- ii) Original challan & GR in duplicate
- iii) Copy of Inspection Report
- iv) List of Inventory i.e. module No., Luminary No., and Battery Serial No. etc.
- v) Copy of insurance policy

A set of above documents except inspection report shall be sent to Head Office. Bills duly verified by the concerned project officers and received by concerned panchayats / beneficiary will be forwarded by the concerned project officer to H/Q to facilitate the payment. The manufacturer shall make proper packing arrangements of the systems so as to protect them from deterioration and damage during transportation and storage till its commissioning at site. The supplier will be held responsible for all the damages due to improper packing. The material to be supplied under the insurance against loss or damage incidental to manufacture or acquisition during transportation and storage.

10. DISPUTES & ARBITRATION

All the complaints in the consumer protection forums, about the supply of SPV Lighting systems will be the liability of the supplier. In the event of any dispute in the Consumer Forum/Court relating to the supplies mentioned in the supply order, about the quality, manufacturing defects and specifications even after the expiry of the guarantee period, it shall be the sole liability of the firm to settle and defend the same.

In case of any dispute, the matter shall be referred to the sole arbitration of Chief Executive Officer, HIMURJA or his nominee. The award of arbitration shall be binding on both the parties. The jurisdiction of all disputes shall be Shimla only.

11. INSTRUCTION MANUAL

Two copies of instruction manual/ maintenance manual, of each type of system shall be supplied to the user and concerned Project Officers. In addition the user shall be imparted complete instructions in terms of the operation and general maintenance of SPV lighting Systems.

12 SPECIFICATIONS

All the parts of the system will conform to MNRE/ BIS specifications and as per the detailed specification of various components of SPV lighting Systems to be installed in H.P. . 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. **Marking of codes / nameplates will be done on the enclosures of battery boxes. The detail of marking and codification will be provided in the detailed supply order. The poles will be erected properly and cement concrete muffing will be provided. The firm will also submit beneficiary's wise list both in soft and hard form with commissioning certificate.** The minimum technical requirements / standards for SPV systems to be deployed will conform to National Solar Mission as applicable to off grid / stand alone/ solar photovoltaic (PV) power plants / Systems **as per Annexure -1(Part-A) of operational guidelines for implementation of Off-Grid and decentralized solar application during 12th plan period issued vide administration approval no. 30/11/2012-13/NSM dated 26.05.2014.** The pole must be 5m long and 3mm thick MS sheet duly painted with corrosion resistant paint or of 65 NB, GI Pipe. The enclosures of DC battery will be of MS sheet or moulded plastic of better quality, UV protected and should not develop cracks due to weathering effect. Mounting structure of luminary and battery box will be of minimum 25x25x3mm and that for module structure it will be 35x35x5mm Angle Iron. The drawing of these structures will be enclosed with the tender.

13 PRICE LOW CLAUSE

If at any time during the supply period, the Firm offers similar SPV Lighting Systems 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.

14 FORCE MAJEURE

The Supplier / Manufacturer will not be liable for loss or damage due to delay in manufacture and delivery resulting from any causes beyond the suppliers / contractors reasonable control including but not limited to compliance with regulations , orders or instructions of any federal state or municipal, Government or Agency thereof , Acts of God, Acts of omissions of the purchaser, Acts of civil and Military authority, Fire, Floods, Strikes, Lockouts,, Altercations, Embargoes, Wars, Riots. Delay in transportation, to obtain necessary labour, manufacturing facility or inability to obtain material due to import or non availability of raw material, any failure or restriction of power supply and delay in releasing payment shall not be considered FORCE MAJEURE circumstances for the

purpose of extension in delivery period. The onus of proving that the work was delayed due to Force Majeure shall rest with the supplier.

15. TRAINING:

The Firm shall impart training in all operation and maintenance aspects to the staff maintaining systems at site or at their works, so that they are fully aware of the system details. In addition to it one day training will be imparted to the beneficiaries at each Panchayat level in the premises of respective Panchayats for the maintenance of SPV systems.

16. TEST REPORTS

The SPV street Lights offered in the tender should have been successfully tested as per MNRE Guidelines and eligible to MNRE Programme under NSM. Tenders not accompanied with desired test reports as per clause No. 3 (vi) will be rejected. The SPV modules to be deployed under the programme should conform to relevant IEC standards 61215/ IS-4286, 61730 and IEC 61701 from MNRE authorized test centers. Balance of systems / components including batteries, cables, switches, control electronics, LEDs and system installation should conform to relevant national and international standards, codes and practices. Modules will be RFID type and will have identification tags for identification and traceability.

17. Maintenance Service

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:-

a) Preventive & Routine Maintenance:-

It includes minimum **Three** visits to individual sites which shall be done at least once in every year and shall include activities such as cleaning of modules, checking of connections of panels, PCB, 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 duly countersigned by beneficiary / representative in the service centre. 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 goes bad.

b) 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 breakdown shall be corrected within a period not exceeding eleven days for normal area and 15 days for tribal and remote area from the date of lodging of complaint. Failure to arrange for the immediate repair/replacement will be liable for penalty @ Rs. 100/- only per day per system which will be recovered from the balance payment or from performance security or any money lying with HIMURJA.

18. SPECIAL CONDITIONS

- a) SPV Modules will meet MNRE specifications as per the National Solar Mission Programme and will have RFID tag.
- b) The batteries will be warranted for a period of five years against manufacturing defects, design and installation. In case the battery goes bad during the warranty period the will have to repair/replace the battery free of cost during this period.
- c) The Balance of systems(BOS) to be supplied with the system should be confirming to latest edition of IEC/equivalent BID standards specified in MNRE guidelines and fulfilling all the requirements of NSM.
- d) Since HIMURJA is not having sufficient manpower to check hundred percent work for the supply, installation of all the SV Street Lights as per the specifications during the course of installation, any discrepancies if found at a later stage, shall be the sole responsibility of the firm. The firm will have to re-install the SPV Street lights at proper location and as per the specifications of the supply order and terms and conditions of the contract.

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:
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
- 8 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.)
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 SPV street lighting Systems supplied and 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 purchasers / 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, testing and commissioning of SPV lighting Systems as shown in scope of tender specification . We 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 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 Purchaser / Agency	Date of Supply/ completion as per Supply order	Actual date of supply/ completion

(Signature of Tenderer)
with designation

PART-I

ANNEXURE VI

GENERAL TECHNICAL PARTICULARS

- 1 SP V MODULE**
 - i) Make
 - i) Reference Standard
 - ii) Power output
 - iii) No. of solar cells
 - iv) Operating voltage
 - v) Open circuit voltage
 - vi) Average hour of operation per day
 - vii) Whether following inscribed/ laminated
 - a) Name of manufacturer
 - b) Model No.
 - c) Serial No.
 - d) Year of Manufacturer
 - e) Supply orders No.
- 2 LAMPS/Luminary(LED type)**
 - ii) Type
 - iii) Make
 - iv) Rating (wattage)
 - v) Light output in lumens
 - vi) Type of Luminaries
 - vii) Reference Standard
- 3 BATTERY**
 - i) Type
 - ii) Reference Standard
 - iii) Type of plates
 - iv) Make
 - v) Minimum rating
 - vi) Discharge rate
- 4 ELECTRONICS**
 - i) Type of inverter
 - ii) Make of Inverter

- iii) Range of frequency
- iv) Electronic efficiency
- v) Idle current type of wire for connection
&Current rating of wire
Ambient light level for sensing
switch on and off
- vi) Type of protection provided
 - i) No load current
 - ii) Battery over voltage
 - iii) Reverse flow of current
 - iv) Open Circuit current / voltage
 - v) Short Circuit current
 - vi) Reverse voltage
 - vii) Temperature limit
 - viii) Whether circuit diagram
with detail of parts provided

5 MECHANICAL COMPONENTS

- i) Type of structure
- ii) Whether drawing enclosed
- iii) Whether provision for
adjustment of angle.
- iv) Size of angle iron used in the structure
- iv) Type of enclosure for battery :-
 - a) If metallic, thickness of sheet and total weight.
 - b) If, plastic, whether UV ray protected & moulded
- v) Weight of structure
- vi) Whether painted with corrosion
resistant paint
- vii) Type of pole
- viii) Height & weight of pole
- ix) Thickness and class of pipe of pole
- x) Whether galvanized / painted

6 MISCELLANEOUS

- i) No. of LED indicators
For charging and deep discharge
- ii) Whether name plate provided indicating
Name of manufacturer/ distinctive logo,
S No, and supply order No. of HIMURJA

Whether sample of warranty card enclosed
(as per Annexure 12 of MNES guide lines)

- iii) Whether sample of manual for
operation and maintenance enclosed
- iv) Test facilities available at the works
- v) Whether sample of manual for
operation and maintenance enclosed
- vi) Whether sample of offered sample enclosed

Note :- GTP should be separate for each Model.

(Signature of Tenderer)
with designation

PART-II

Financial Bid

Annexure A	PRICE SCHEDULE FOR SPV STREET LIGHTING SYSTEMS LED type, 7W, 9W, 12W, 15W and 18W.
Annexure B	PRICE Break Up

Price Break Up of SPV Street Light for 7W (Model-A)

Sr. No.	FOR cost of items complete in all respects as per scope of work	Unit FOR Cost In Rs.	
1	40Wp, RFID Type Module, complete in all respect as per MNRE specifications.	12V/40AH at C/10 rate Low Maintenance flooded electrolyte	Tubular Positive Gel
2	Battery, 12V/40AH at C/10 rate, complete in all respect as per MNRE specification.		
3	DC Battery enclosure (PVC/Metallic)		
4	7 Watt, LED Luminary complete in all respects (W-LED).		
5	Street Light pole complete in all respect as per MNRE specification.		
	Total		

Signature of Tenderer)
with designation

Price Break Up of SPV Street Light for 7W (Model-(A-I))

Sr. No.	FOR cost of items complete in all respects as per scope of work	Unit FOR Cost In Rs.
1	40Wp at 16.4Volt Module, complete in all respect as per MNRE specifications.	
2	12Volt, 120Wh Lithium Ion/ LiFePo4 Battery complete in all respect as per MNRE specifications.	
3	DC Battery enclosure (PVC/Metallic)	
4	7 Watt, LED Luminary complete in all respects (W-LED) (mention make of LED)	
5	Street Light pole complete in all respect as per MNRE specification.	
	Total	

Signature of Tenderer)
with designation

Price Break Up of SPV Street Light for 9W (Model-B)

S No.	Description	Unit FOR Cost In Rs.	
	FOR cost of items complete in all respects as per scope of work	Low Maintenance flooded electrolyte Tubular Positive Plate Lead acid Battery	Tubular Positive Gel
1	50Wp, RFID Type Module, 16.4Volt ± 0.2 complete in all respect as per MNRE specification .		
2	Battery, 12V/50AH at C/10 rate Low Maintenance flooded electrolyte Tabular Positive Plate Lead acid Battery complete in all respect as per MNRE specification.		
3	DC Battery enclosure (PVC/Metallic) complete in all respect.		
4	9Watt, LED Luminary complete in all respects (W-LED). Using LED which emits Ultraviolet light will not be permitted. (mention make of LED).		
5	Street Light pole complete in all respect as per MNRE specification.		
	Total		

Signature of Tenderer)
with designation

Price Break Up of SPV Street Light for 12W (Model-C)

S No.	Description	Unit FOR Cost In Rs.	
	FOR cost of items complete in all respects as per scope of work	Low Maintenance flooded electrolyte Tubular Positive Plate Lead acid Battery	Tubular Positive Gel
1	75Wp, RFID Type Module, 16.4Volt ± 0.2 complete in all respect as per MNRE specifications.		
2	Battery, 12V/75AH at C/10 rate Low Maintenance flooded electrolyte Tabular Positive Plate Lead acid Battery complete in all respect as per MNRE specifications.		
3	DC Battery enclosure (PVC/Metallic) complete in all respect.		
4	12Watt, LED Luminary complete in all respects (W-LED). Using LED which emits Ultraviolet light will not be permitted. (mention make)		
5	Street Light pole complete in all respect as per MNRE specifications.		
	Total		

Signature of Tenderer)
with designation

\

Price Break Up of SPV Street Light for 15W (Model-D)

S No.	Description	Unit FOR Cost In Rs.	
	FOR cost of items complete in all respects as per scope of work.	Low Maintenance flooded electrolyte Tubular Positive Plate Lead acid Battery	Tubular Positive Gel
1	90Wp, RFID Type Module, 16.4Volt complete in all respect as per MNRE specifications.		
2	Battery, 12V/100AH at C/10 rate complete in all respect as per MNRE specifications.		
3	DC Battery enclosure (PVC/Metallic) complete in all respect.		
4	15Watt, LED Luminary complete in all respects (W-LED). Using LED which emits Ultraviolet light will not be permitted. (mention make).		
5	Street Light pole complete in all respect as per MNRE specifications.		
	Total		

Signature of Tenderer)
with designation

Price Break Up of SPV Street Light for 18W (Model-D)

S No.	Description	Unit FOR Cost In Rs.	
	FOR cost of items complete in all respects as per scope of work	Low Maintenance flooded electrolyte Tubular Positive Plate Lead acid Battery	Tubular Positive Gel
1	125Wp, RFID Type Module, 16.4Volt complete in all respect as per MNRE specifications.		
2	Battery, 12V/100AH at C/10 rate complete in all respect as per MNRE specifications.		
3	DC Battery enclosure (PVC/Metallic) complete in all respect.		
4	18Watt, LED Luminary complete in all respects (W-LED). Using LED which emits Ultraviolet light will not be permitted. (mention make)		
5	Street Light pole complete in all respect as per MNRE specifications. (Pole length 6 mtr. for 18W)		
	Total		

Signature of Tenderer)
with designation

Financial Bid

For Supply, Installation & Commissioning of SPV Street Lights (LED type)

S No.	Description	Unit FOR Cost (in Rs.) (with Low Maintenance flooded electrolyte Tubular Positive Plate Lead acid Battery	Unit FOR Cost (in Rs.) with at Tubular Positive Gel
	1	2	3
1	FOR cost of SPV Street Lighting Systems, for 7 Watt LED Luminary, with 40Wp, RFID Type Module, with Battery, 12V 40Ah, complete in all respect as per MNRE specifications. (Model-A)		
2	FOR cost of SPV Street Lighting Systems, for 9 Watt LED Luminary with 50Wp RFID Type Module, 12V/50AH at C/10, Battery, complete in all respect as per MNRE specifications. (Model-B)		
3	FOR cost of SPV Street Lighting Systems, for 12 Watt LED Luminary with 75Wp RFID Type Module, 12V/75AH at C/10, Battery, complete in all respect as per MNRE specifications. (Model-C)		
4	FOR cost of SPV Street Lighting Systems, for 15Watt LED Luminary with 90Wp RFID Type Module, 12V/100Ah at C/10, Battery, complete in all respect as per MNRE specifications. (Model-D)		
5	FOR cost of SPV Street Lighting Systems, for 18Watt LED Luminary with 125Wp RFID Type Module, 12V/100Ah at C/10, Battery, complete in all respect as per MNRE specifications. (Model-E).		
6	FOR cost of SPV Street Lighting Systems, for 7 Watt LED Luminary, with 40Wp, RFID Type Module, 12Volt, 120Wh Lithium Ion/ Lithium Ferro phosphate Battery complete in all respect as per MNRE specifications. (Model A-I) only for Lithium Ion/ (not for Col. 3&4)		
7	Installation and Commissioning charges complete in all respect.		
	Total FOR cost in Rs.		

Note:-

The FOR cost including all applicable taxes and duties including GST.

(Signature of Tenderer)
with designation