

TENDER DOCUMENT

for

Rate Contract for Supply and Installation of LED based Solar Lighting Systems

(Tender no. MPSEDC/MKT/2010/178)

(All pages of this document except for Commercial-bid to be submitted in original duly signed on each page along with the technical bid envelope. The Commercial bid in original is to be enclosed in a separate sealed envelope)

M P State Electronics Development Corporation Ltd.

(A Govt. of M P Undertaking)

147, Zone-I, M.P. Nagar, Bhopal-462011 (M.P.)

Ph.0755-2769816 Fax: 0755-2769824

Website: www.mpsedc.com

Technical Bid

INVITATION FOR BIDS

Addl. Chief General Manager, MPSEDC, Bhopal invites sealed bids, under two envelope system, from eligible bidders for Rate Contract for Supply and Installation of LED based Solar Lighting Systems. Interested bidders may obtain further information from the office of MP State Electronics Development Corporation, Bhopal.

Sl. no.	Items	Description
a	Scope of Work	Rate contract for Supply and Installation of LED based Solar Lighting Systems.
b	Cost of bid document	Rs.1000/- (non-refundable) by Demand Draft/ Cash
c	Sale of bid documents	12.05.2010 to 29.05.2010 (Between 10.30 a.m. to 5.30 p.m.)
d	Last date of submission of bid	29.05.2010 up to 3:00 p.m.
e	Date of opening of bid	29.05.2010 at 4:00 p.m.
f	EMD	Rs. 1,00,000/- (Rupees One Lac Only) in the form of Demand Draft in favour of MPSEDC Ltd. payable at Bhopal
g	Place of opening of bids:	MPSEDC, 147, Zone-1, Maharana Pratap Nagar, BHOPAL (M.P.)
h	Address for communication	Addl. Chief General Manager M.P. state Electronics Development Corporation Ltd., 147,Zone-1, Maharana Pratap Nagar, BHOPAL-462011 (M.P.) Phone: 0755-2769816, Fax-2769824

Note - Tender can be downloaded from our website www.mpsedc.com. In case tender form has been downloaded from the website, the tenderer will have to enclose a Demand Draft of Rs.1000/- (Rupees One Thousand only) of any scheduled bank in favour of MPSEDC Ltd. payable at Bhopal towards the Tender Document charges, along with the tender.

***Any future Corrigenda/Information shall be posted only on our website www.mpsedc.com**

Letter for Submission of Tender

Addl. Chief General Manager
MPSEDC Ltd
147 Zone I, M P Nagar
Bhopal (M P)

Dated _____ 2010.

Ref: Tender for Rate Contract for Supply and Installation of LED based Solar Lighting Systems

Dear Sir,

Having examined the tender document relating to the Rate Contract for Supply and Installation of LED based Solar Lighting Systems as detailed in your tender document, conditions and scope of supply, specifications etc., and having understood the provisions and requirements relating to the supply and all other factors governing the tender, we hereby submit our offer for the supply of the proposed items in accordance with terms and conditions and confirm our acceptance to execute the order within the time period specified in the tender document, at the rates quoted by us in the accompanying Technical & commercial Bid.

If, after the tender document is accepted, we fail to complete the supply of the items as per the order, we agree that, MPSEDC, Bhopal, shall have full authority to forfeit the earnest money and cancel our order with no obligation on their part.

We confirm having deposited earnest money of Rs 1,00,000/- (Rupees One Lac only) by Demand Draft No.....dated drawn onBank Branch.

We further confirm that –

- i. We have successfully executed orders of similar nature and we have sufficient experience and financial strength in handling large orders of this nature.
- ii. We have sufficient qualified manpower and necessary materials and after sales support to execute the order efficiently in the specified time schedule.
- iii. The quoted rates shall be valid till the completion of the order/ rate contract period and not less than 90 days.
- iv. We further confirm that all chapters of the tender documents have been read, understood and signed and there is no deviation/discrepancy.

Signature of the Tenderer
With stamp and date

GENERAL INFORMATION AND EMD DETAILS

1	EMD Details Name of the Bank: DD No and date: Amount in Rs.	
2	Name and Address of the Tenderer:	
3	Name of Contact Person:	
4	Mobile No:	
5	Fax:	
6	E-mail:	
7	Telephones	
8	Category of the tenderer (Whether company, partnership firm or proprietary concern etc)	
9	Name of Chief Executive Officer and Telephone No.	
10	Year of Establishment	
11	Sales Tax/CST/Commercial Tax nos.	
12	Income Tax PAN/GIR No.	
13	Yearly Turnover of the Last 3 years.	
14	Name and Address of the Banker	
15	List of major Clients and the size of orders executed (Enclose details of ten major clients/orders)	

Note: Separate sheets may be attached wherever necessary.

Signature of the Tenderer
With stamp and date

Terms and Conditions

1 Eligibility Criteria :

- Manufacture or their authorized dealer is only eligible for bidding.
- The bidder must have working office and service centre in the state of Madhya Pradesh for at-least two years; attach copy of MPST/CST/TIN issued by M.P. Commercial tax department.
- The products offered must be of high quality and manufactured by reputed manufacturer. The manufacturer should have an average turnover of minimum Rs.50 Lakhs in the last 3 years.
- In case of dealer, he must attach tender specific authorisation letter (in the enclosed format in the tender form) from respective manufacturer.
- ***One Sample of each item quoted shall be submitted along with the Tender. The Bidder should submit the Lighting Fixtures & control circuits separately for each item whereas Battery and Solar Panel can be common to other products.***

2. Amendment of Bidding Document by the Competent Authority

At any time prior to the deadline for the submission of bids, the competent authority may, for any reason, whether on it's own or in response to a clarification requested for by a prospective bidder, modify the bidding document by way of amendment(s).

The prospective bidders having received the bidding documents will be notified of the amendment(s) on the website of MPSEDC i.e. www.mpse dc.com and such amendments shall be binding on them.

In order to allow reasonable time to the prospective bidders for taking into account such amendment(s), in the preparation of their bids, the competent authority, at its discretion, may extend the deadline for the submission of bids.

3 Bid Price

The bidders shall indicate on the prescribed Price Schedule, including item-wise and final Bid Price of the items listed

Prices quoted by the Bidder shall be fixed during the Bidder's performance of the contract and shall not be subject to variation on any account.

A bid submitted with an adjustable price will be treated as non-responsive and rejected.

4. The EMD may be forfeited:

If a Bidder withdraws its bid during the period of bid validity specified by the bidder on the bid Form: or In case of a successful Bidder, if the Bidder fails:

- (i) To accept the order
- (ii) To furnish performance security
- (iii) If the supplier, after accepting the purchase order fails to deliver the material/services as per the order.

5. Any alterations, erasures or overwriting shall be valid only if the person or persons signing the bid initial them.

6. Technical requirements

The technical specifications as per annexure are the minimum configuration required. Higher specifications may be considered but no price weightage for higher specifications shall be considered.

6. Service support requirement

a. Bidder will ensure the proper monitoring and ensure the timely call attending.

b. Following are the limits of time for final closure of call.

- i. 2 days for the System at customer site situated at metro of MP
- ii. 4 days for the System at customer site situated at district level of MP
- iii. 5 days for the System at customer site situated at block level or at other places of MP
- iv. First component be replaced with new one before taking the old one back, as far as possible to avoid delay.

c. The delay in rectification of calls would cause the penalty.

d. In case of prolonged pending call the MPSEDC reserves the right to get the defective component repaired from other agencies at the risk of the supplier, and would recover the cost of repair from the supplier.

e. The delay in call attending / closure will be treated as poor quality of service support and may lead to disqualification of bidder from participation in future purchases.

f. The penalty would be deducted for the delay in call rectification.

- i. 200/- per week or part thereof for each system remained not rectified more than the above-specified period.
- ii.

08. Inspection

Purchaser reserves the right to inspect the manufacturer works. The systems supplied shall be inspected by the representative of MPSEDC before despatch.

SUBMISSION OF BIDS

09. Sealing and Marking of Bids

The bidders shall submit EMD, technical bid (containing the technical specifications offered, literature leaflets etc one original copy of commercial bid in separate, envelopes should be sealed in one main envelope. All the envelopes should be distinctly marked EMD, technical bid, and commercial bid.

10. **Payment:**

Supplier shall immediately after dispatching the materials to the consignee, present the bills to MPSEDC in duplicate along with the following papers/documents:

- (a) Receipt of goods and installation report by the consignee, dully signed and complete in all respects.
- (b) Such other documents as may be specified in the tender/supply order.

On the basis of the supplier's bills.

MPSEDC shall raise its own bills on the indentor /purchasing department without undue delay.

Payment to the supplier shall be made by MPSEDC within 15 days of receipt of the payment of its bill from the Department concerned, after deducting such other amounts that may be owned by supplier to MPSEDC on any account like TDS etc. whatsoever.

Payments shall ordinarily be made by MPSEDC only through crossed Account payee cheque drawn on Banks located in Bhopal.

Deduction, if any made by the Purchasing Department while making payment to MPSEDC shall be to the supplier's account.

Payment thereof shall be made to the supplier only on receipt of the same from the Purchasing Department.

MPSEDC may also issue a direct supply order with the consent of the contractor wherein the contractor can collect payment directly from the indenting department. In such a case, contractor will be required to deposit MPSEDC's services charges in advance.

11. **Deadline for Submission of Bids**

Bids must reach to the competent authority at the address specified but not later than the time and date specified in the invitation of Bids. In the event of the specified date for the submission of bids being declared a holiday for the office of the competent authority, the bids will be received up to the appointed time on the next working day.

12. **Late Bid**

Any bid received after the deadline for submission of bids prescribed by the competent authority, will not be accepted and returned unopened to the bidder.

BID OPENING AND EVALUATION OF BIDS

13. **Opening of Bids**

Since it is a Two-bid system, Technical and EMD envelope will be opened first by the Committee constituted for this purpose. If the technical bid specifications

offered, EMD is found in order, the Committee will open commercial bid only of the eligible bidders.

The Committee will open the bids, in the presence of Bidders' representatives who choose to attend on the date specified at the following location:

Additional Chief General Manager
M.P.State Electronics Development Corporation Ltd.
147, Zone-I, Maharana Pratap Nagar,
BHOPAL-462011

Bidders' representatives shall sign a register evidencing their attendance.

In case, the commercial bid is not opened on the same or next day of opening of technical bid, the Committee may decide to open the commercial bid on subsequent dates. In such case the date, time and place of opening of commercial bid will be intimated to the bidders or their representatives.

14. **Preliminary Examination**

Before starting evaluation, the bids will be examined to determine whether they are complete, whether any computational errors have been made, whether required details have been furnished, whether the documents have been properly signed, and whether the bids are generally in order. In case of computational error the basic price will prevail. In case of error in totals and grand total, the sub total will prevail.

If bid is determined as not substantially responsive, the competent authority will reject it and only the substantially responsive commercial bids will be considered.

The process of evaluation of commercial bid is as follows:

- (i) The Committee, appointed by the MPSEDC, will first verify that the Bank Draft for Bid Security is in order and as per requirement of the bid. The Committee will examine the bid on Eligibility Criteria as specified. The scrutiny of technical proposals will be based on the Evaluation Criteria determined.
- (ii) The sample submitted by the Bidders will be tested by the testing Laboratory of MPSEDC to ascertain whether they meet the Technical Specification. The samples which do not meet the Technical Specifications shall be rejected and Price Bids of such samples will not be considered.
- (iii) The commercial bid will be opened only for the proposals, which are found eligible and technically acceptable by the Committee and approved. On the day specified for the opening of bid, the Committee, appointed by the MPSEDC, will open the commercial bids of eligible bidders and scrutinize the same minutely.
- (iv) After scrutiny, the MPSEDC after having examined the proposal may accept the same or accept the bid price of any other bidder found suitable or reject all or any proposal. The decision of the MPSEDC in this regard shall be final and binding.

16 **Performance Security**

The successful bidder shall be required to submit performance security equivalent to 10% of the order value for the satisfactory performance/ completion of the complete order (Including warranty period), in the form of performance Bank Guarantee/FDR pledged in favour of MPSEDC Ltd with MPSEDC

This guarantee may be invoked on violation of any of the condition (s) given below:

If any of LED based Solar Lighting Systems do not perform satisfactorily

The observed output/deliverables of the LED based Solar Lighting Systems are not in accordance with the approved specification.

The corporation suffers losses by way of some of the module generating illegal/ incorrect reports/output.

The Contractor does not meet the Service Support Requirement as given in the Tender during the warranty period.

17 **Contacting the Competent Authority**

Any effort on part of a Bidder to influence the Competent Authority or members of Technical/Monitoring committee, in its decisions on bid evaluation; bid comparison or award of contract, may result in rejection of the their bid.

18 **Rate Contract Agreement**

Offer for Agreement: After finalization of the rates by the Committee of MPSEDC on the basis of offers/ tenders received, the lowest rates will be offered to lowest ten bidders for entering into Rate Contract Agreements. They have to sign the agreement within 15 days of the receipt of the communication failing which the earnest money may be forfeited. Agreement has to be executed on Non-judicial stamp paper of appropriate denomination, applicable as per rules.

MD MPSEDC at his own discretion may decide to offer the lowest rates to more than ten Bidders.

19 **General**

Supply will be complete only when the full quantity is supplied and installed as per the tender condition and accepted by us.

Bid form duly filled in, signed and complete in all respects

The price should be inclusive of all taxes and local levies if any on FOR destination basis.

The rates should be free from all escalation. However, all Tax and duty benefits if applicable should be passed on to us.

Delivery period should not exceed 40 days from the date of order under any circumstances. The MPSEDC reserves the right to extend the delivery period, in the interest of the concerned department.

System should invariably be warranted for a period of one year from the date of successful installation and commissioning.

Penalty- In case of delay in execution of the order, MPSEDC in its discretion may either;

(a) Recover from the supplier/contractor as agreed towards liquidated damages a sum @ ½% (half percent) of the price of any stores not delivered for a week, or Part thereof subject to maximum of 10% (ten percent). OR Purchase from elsewhere on account and at the risk of supplier, the stores not delivered.

OR

(b) Cancel the contract reserving concern MPSEDC right to recover damages. The inner and outer envelopes shall be addressed to the competent authority at the following address:

Additional Chief General Manger
M.P. State Electronics development Corporation Ltd.
147, Zone-I, Maharana Pratap Nagar,
BHOPAL-462011

The inner envelopes shall also indicate the name and address of the Bidder to enable the bid to be returned unopened in case it is declared "late."

If the outer envelope is not sealed and marked, the competent authority will assume no responsibility for the bids, misplacement or premature opening.

Telex; cable facsimile or fax bids will be rejected.

Conditional bids are liable to be rejected.

MPSEDC does not bind themselves to accept the lowest or any other tender and reserve the right to accept or reject any or all the tender in full or in part without assigning any reason.

MANUFACTURERS AUTHORIZATION FORM

Ref No:

Dated:.....

To,

Addl.Chief General Manager
M.P. State Electronics Development Corporation Ltd.
147,Zone-1,
Maharana Pratap Nagar,
BHOPAL-462011 (M.P.)

Tender No:.....with Due Date:

Dear Sir,

We _____ who are established and reputed
Manufacturers of _____ having works/
factories
At _____

_____ (Address of the factory)

do hereby authorize M/s _____ (Name & Address of agent)
to submit a bid, and subsequently negotiate and sign the contract with you against
the above tender.

We hereby extend our full guarantee, warranty and support and also in meeting
warranty obligations by providing necessary spares in time for the goods & services
offered by the above firm against this tender.

Yours faithfully

(Name)
(Name of the manufacturer)

Note: This letter of authority should be on the letterhead of the manufacturer and
should be signed by a person competent and having a power of attorney to bind the
manufacturer. The bidder should include this authorization in their bid.

Technical Specifications

Solar-LED Home Lighting System Type I

Solar Photovoltaic Module: 12Volt /12 Wp
7AH/12V S.M.F. Battery (Exide/Uplus/Rocket) - One Number
Electronics Including LED driver, fitted in a powder-coated metal cabinet,-one set
Lamp - Quantity - One
Power Consumption - 2.4 watt Nominal
Lamp type - Super Bright Clear White LED Based with Total Flux minimum 120 lumens
LEDs used should be Minimum 120 degrees view angle
Expected life of lamp should be 100000 Hours
Operating Voltage of complete system should be 12 VDC
Duty cycle in a single charge should be minimum 25Hrs.
One number of Radio Wireless Walky-Talky or mobile charging facility of any makes (12 V Operation)
Protections required - Reverse polarity /Over Charge/ Low battery cut off
System must be warranted for at least 1 year.
Power factor of the System should be 0.95 or more.

Solar-LED Home Lighting System Type II

Solar Photovoltaic Module: 12Volt /12 Wp
7AH/12V S.M.F. Battery (Exide/Uplus/Rocket) - One Number
Electronics Including LED driver, fitted in a powder-coated metal cabinet,-one set
Lamp - Quantity - Two
Power Consumption - 2.4 Watt Nominal per Lamp, Total 4.8 Watts
Lamp type - Super Bright Clear White LED Based with Total Flux minimum 120 lumens per Lamp
LEDs used should be Minimum 120 degrees view angle
Expected life of lamp should be 100000 Hours
Operating Voltage of complete system should be 12 VDC
Duration of operation with fully charged battery should be minimum 16 Hrs.
One number of Radio Wireless Walky-Talky or mobile charging facility of any makes (12 V Operation)
Protections required - Reverse polarity /Over Charge/ Low battery cut off
System must be warranted for at least 1 year.
Power factor of the System should be 0.95 or more.

Solar-LED Home Lighting System Type III

Solar Photovoltaic Module: 12Volt /12 Wp
7AH/12V S.M.F. Battery (Exide/Uplus/Rocket) - One Number
Electronics Including LED driver, fitted in a powder-coated metal cabinet,-one set
Lamp - Quantity - Three
Power Consumption - 2.4 Watt Nominal per Lamp, Total 7.2 Watts
Lamp type - Super Bright Clear White LED Based with Total Flux minimum 120 lumens per Lamp
LEDs used should be Minimum 120 degrees view angle
Expected life of lamp should be 100000 Hours
Operating Voltage of complete system should be 12 VDC
Duration of operation with fully charged battery should be minimum 9 Hrs.
One number of Radio Wireless Walky-Talky or mobile charging facility of any makes (12 V Operation)
Protections required - Reverse polarity /Over Charge/ Low battery cut off
System must be warranted for at least 1 year.

Power factor of the System should be 0.95 or more.

Solar-LED STREET Lighting System

Solar Photovoltaic Module: 12 Volt / Minimum 24 Wp

14AH/12V S.M.F. Battery (Exide/Uplus/Rocket) one Number

Electronics Including LED driver, fitted in a powder-coated metal cabinet,-one set

1 Lamp X 10 watts Or 2 Lamps x 5 watts

Lamp type - Super Bright Clear White LED Based with Total Flux minimum 480 lumens for 10 Watt Lamp or 240 Lumens per lamp for 5 Watt Lamp

LEDs used should be Minimum 120 degrees view angle

Expected life of lamp should be 100000 Hours

Power Consumption of Single Lamp should be 800 mA +/-15% at 12 V DC i.e. 9.6 Watt nominal

Operating Voltage of complete system should be 12 VDC

Duration of operation with fully charged battery should be minimum 13 Hrs.

LEDs used should be Minimum 120 degree angle.

Battery Exide /Uplus/ ROCKET 14-AH/12V SMF

Dusk to down auto switch with separate LDR circuitry for reliable switching.

Protections required - Reverse polarity /Over Charge/ Low battery cut off

System must be warranted for at least 1 year.

Power factor of the lamp will be 0.95 or more.

The street light should be supplied with appropriate mounting pole made of galvanised iron (GI) of minimum height 12ft above ground.

Mode No. : - SOLAR LED LANTERN SYSTEM 5W x 12V

Solar Photovoltaic Module (Polycrystalline Silicon Material):- 12 Volts / 5 Wp

Battery - 4.5 AH 12 Volts S.M.F. (Sealed Maintenance Free) Battery (EXIDE/ UPLUS/ ROCKET)

Electronics Including LED driver, Fitted in a ABS/Plastic cabinet, with a Lamp of 3.2 Watt

Lamp type - Super Bright Clear White LED Based with Total Flux minimum 160 lumens

LEDs used should be Minimum 120 degrees view angle

Expected life of lamp should be 100000 Hours

Power consumption of Single Lamp should be 300 mA nominal at 12 Volts DC

No load current of a single lamp with complete unit must be less than 30 mA.

Duration of operation with fully charged battery should be minimum 10 Hours

Protections: - Over Load, Low battery, Short circuit, Reverses polarity, No load, Over charge

Power factor of lamp will be 0.95 or more

Light out put must be constant at any voltage of battery

Reverses polarity protection for solar Module (a protective diode must be provided)

Efficiency of lighting system must be 80% and above

System must be warranted for one year

Technical Specification of Solar Photovoltaic Module 12 Volts / 5 Wp

Maximum Power Rating Pmax. (Wp)	-	5.0 W
Minimum Power Rating Pmin (Wp)	-	4.0 W
Rated Current	-	0.31 A
Rated Voltage	-	16 V
Short circuit current	-	0.42 A
Open Circuit Voltage	-	20.5 V

Technical Specification of Solar Photovoltaic Module 12 Volts / 12 Wp

Maximum Power Rating Pmax. (Wp)	-	12.0 W
Minimum Power Rating Pmin (Wp)	-	10.0 W
Rated Current	-	0.72 A
Rated Voltage	-	16.5 V
Short circuit current	-	0.84 A
Open Circuit Voltage	-	21.0 V

Technical Specification of Solar Photovoltaic Module 12 Volts / 24 Wp

Maximum Power Rating Pmax. (Wp)	-	24.0 W
Minimum Power Rating Pmin (Wp)	-	20.0 W
Rated Current	-	1.44 A
Rated Voltage	-	16.5 V
Short circuit current	-	1.68 A
Open Circuit Voltage	-	21.0 V

Technical Specification of LED Based Lamps

The power consumption of LED Lamps given against each item should not vary more than -10% to +20%.

The light output specified against each lamp is the minimum value. The light output shall be tested by comparing the intensity against standard lamps available with MPSEDC.

Note:

- (a) Systems shall be subjected to a test of all the above parameters by MPSEDC for performance. One sample of each item (all options) has to be submitted along with the tender.
- (b) Bidders should enclose related Technical literatures/ brochures etc in their Technical bids.
- (c) The solar Module should be supplied along with appropriate weather proof stand, connecting cable etc.
- (d) In case an approved component is not available alternate component can be supplied only after testing & approval of the same by MPSEDC Calibration Lab.

COMMERCIAL BID
(To be submitted in the commercial bid envelope)

SI No	Item	Cost per Unit
1	Solar-LED Home Lighting System Type I	
2	Solar-LED Home Lighting System Type II	
3	Solar-LED Home Lighting System Type III	
4	Solar-LED STREET Lighting System alongwith mounting Pole	
5	SOLAR-LED Street Lighting System without mounting Pole	
6	SOLAR LED LANTERN SYSTEM 5W x 12V	

Note:

1. The rates are to be quoted for supply, installation and commissioning at locations anywhere in MP and on FOR destination basis inclusive of all applicable taxes, duties etc.
2. The rate should also be inclusive of on site maintenance during warranty period of one year.
3. I/We accept the terms and conditions mentioned in the tender document.

Signature of the Tenderer
With stamp and date