



Department of Wildlife Protection J&K Government
Office of the Wildlife Warden Jambu Zoo
Jammu

Manda Hills, Near Hotel Ashok Jammu. Ph. 0191-2545732

Email: wlwjambuzoo@gmail.com

TENDER NOTICE

Tender Notice: NIT No.:- 48/WLWJZ of 2017-18 dated: 10-01-2018

For and on behalf of the Governor, Jammu & Kashmir State, Sealed & Separate tenders are invited from approved and eligible contractors registered with J&K State Govt. /Central Govt. Organizations for the following works:

Name of Work:

S.No.	Name of work	Earnest Money	Cost of Tender Document	Time of completion	Receiving /Opening Authority
1	"Supply, installation, testing & commissioning of 12 / 18W LED - based solar street light system complete with lamp, luminaries and fittings, with 2 year warranty period obligations at Khanpur Nagrota, Jammu.	Rs. 200000 /-	5000/-	45 days	Tender opening committee

The detailed notice, eligibility criteria and tender document can be seen / downloaded from www.jkwildlife.com In future; any further notice/information related to this tender shall be uploaded on the same website only. The undersigned reserves all the rights to reject any or all the tenders without assigning any reason.

Position of funds: Partly available

Position of AA/TS: Under Process

Publishing Date	10-01-2018
Download Start Date	10-01-2018
Bids Submission Start Date	10-01-2018
Last Date for Submission of Tender/Bids	On or Before 17-01-2018 upto 02:00 PM In the Office of Wildlife Warden, Jambu Zoo, Manda Hills Jammu
Date of opening of Tender (Technical & Financial Bids)	17-01-2018 at 3:00 PM (In the Office of Conservator of Forest(Wildlife) Manda Hills, Jammu)

01. Bid documents contain qualifying criteria for bidder, specifications, conditions and other details.

02. Bids must be accompanied by bid security (EMD) and cost of Tender Documents as specified payable at Jammu pledged in favor of **The Wildlife Warden, Jambu Zoo, Manda hills Near Hotel Ashok, Jammu**. Bid security will have to be in any one of the forms as specified in the bidding documents and shall have to be valid for six months or more after last date of uploading of Bid. The cost of downloaded tender documents in form of DD shall be in separate envelop with cover marking cost of document.

03. The original instruments in respect of cost of Documents EMD and relevant technical bid documents etc must be delivered to **The Wildlife Warden, Jambu Zoo, Manda hills Near Hotel Ashok, Jammu**. If the office happens to be closed on date of receipt as specified the EMD Documents fee will be received on next working day at the same time and venue.
04. The bids for the work shall remain valid for a period of 90 days from the date of opening of bids if any bidder/ tenderer withdraws his bid/tender before the said period or makes any modifications in the terms and conditions of the bid, the same earnest money shall stand forfeited.
05. No Engineer of Gazetted rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of the State Government is allowed to work as the contractor for a period of two years after his retirement from government service without permission of the government. This contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had not obtained permission from the government as aforesaid before submission of the tender or engagement in the contractor's service.
06. Other detail can be seen in the bidding documents.
07. Instructions to bidders regarding tendering process-
- a) The interested bidder can download the NIT / Bidding documents from the website:- www.jkwildlife.com and submit their bids (T-Bid and Q-Bid) in the office mentioned above.
 - b) Bidder should get ready with the scan copies of cost of documents & EMD as specified in the tender documents. The original instruments in respect of cost of documents EMD and relevant documents be submitted to the tender inviting authority by registered post/ courier as per time schedule specify.
08. In order to qualify, all bidders shall provide copied of documents as defined below:-
- I. **Self attested** photocopy of Registration Card duly renewed for the current financial year.
 - II. **Self attested** photocopy of PAN Card.
 - III. **Self attested** photocopy of valid sale tax Registration certificate with TIN No./GST No.
 - IV. Earnest Money (EMD).
 - V. Tender Cost (DD).
 - VI. ITR last three year.
09. Bids will be opened only after accord of Technical sanction and administrative approval.
10. The Department will not be responsible for any delay in submission of the bid due to any reason (Technical or otherwise).
11. The accepting department however reserves the right to reject any or all the tenders without assigning any reasons thereof.
12. The contractor shall arrange the key materials like Cement, aggregates etc. on his own from authorized dealers for the above said work and quality of material shall be ISI marked and have to be verified / passed by the concerned Engineering wing and Officers of the department before the start of work.

Cement: As per ISI mark.

13. The Department reserves the right to cancel (withdraw) the tender without assigning any reasons thereof.
14. All other terms and conditions shall remain same as per PWD Form 25(double leaf) and as per the detailed document.
15. Bidder shall quote their rates complete inclusive of all carriages, loading, unloading, of martial and other over heads and 2 year warranty period obligation.
16. **Bidders shall also provide their 16 digit Bank Account No., Contact No. (Mobile/Landline) & e-mail ID.**
17. **The Department shall not be held responsible for selection criteria/policy matter being adopted by the Directorate of Information regarding publishing the NIT, in any of the newspaper under circulation.**
18. **The short listed firm shall give presentation (PPT) regarding the design and technical specification before the coordinate committee.**

Special condition:-

Any item of work which is not advertised in the rate list but found necessary during execution shall be got executed and shall be paid with contractors tender appreciation / depreciation or analysis of rates approved by the competent authority whichever is less. These will hold good for quantities over and above, if required at site.

Performance security @10% (Ten percent) of advertised cost in the shape of CDR/FDR/BG shall remain in force for a period till satisfactory physical completion of the contract as per scope of the work plus "Defect Liability Period" of two years is completed.

The performance security shall be furnished by the lowest bidder before allotment of contract. However Earnest Money Deposit (EMD) shall be released after receipt of Performance Security of 10% of the advertised cost.

No. :-WLWJZ/2017/1204-1209

Dated: 10-01-2018

sd/-
Wildlife Warden
Jambu Zoo, Jammu

Copy submitted to the:

1. Pr. Chief Conservator of Forests (Wildlife)/ Chief Wildlife Warden, J&K Government for favour of information please.
2. Conservator of Forests (WL) Jammu Region for information.
3. Joint Director, Information Department, Jammu for favour of information and necessary action with the request that the above notice may kindly be got published in all leading English/Hindi/Urdu daily news papers consecutively for two or three days.
4. Range Forest officer, Jambu Zoo for information & necessary action.
5. Notice Board.

sd/-
Wildlife Warden
Jambu Zoo, Jammu

GOVERNMENT OF JAMMU & KASHMIR
Office of the Wildlife Warden Jambu Zoo
Jammu
TENDER DOCUMENT

Tender Notice

NIT No.:- 48 of 2017 Dated:- 10-01-2018

FOR

“Supply, installation, testing & commissioning of 12 / 18W White LED -based solar street light system complete with lamp, luminaries and fittings with 2 year warranty period obligations at Jambu Zoo, Khanpur Nagrota, Jammu, for the year 2017-18.

I) Location: - Khanpur, (Jagti) Nagrota, Jammu

II) Name of Works: - “Supply, installation, testing & commissioning of 12 / 18 W White LED-based solar street light system complete with lamp, luminaries and fittings with 2 year warranty period obligations at Jambu Zoo, Khanpur Nagrota, Jammu for the Year 2017-18”.

III) DEFINITIONS of TERMS

- A) PCCF/ Chief Wildlife Warden J&K:** Principal Chief Conservator of Forests, /CWLW J&K Wildlife Protection Department.
 - B) Conservator of Forests, Wildlife Jammu:** Conservator of Forests, Wildlife Jammu.
 - C) Engineering Wing:** Engineering wing shall mean the Assistant Executive Engineer/Junior Engineer/Draftsman for technical check from the Department.
 - D) Department:** Department shall mean the Department of Wildlife Protection, J&K Govt.
 - E) Wildlife Warden I/c Jambu Zoo:** Wildlife Warden I/c Jambu Zoo Jammu, Wildlife Protection Department.
- a. **Contractor/Agency:** Contractor/Agency shall mean the tenderer whose tender has been accepted by the Department and who is authorized to enter in to agreement with the Department for execution and completion of the work tendered by him.
 - b. **Works:** Works shall mean works to be executed in accordance with approved drawings, design, plan and specification.
 - c. **Site:** Site shall mean the place at which the works are to be executed.
 - d. **Completion:** Completion shall mean when the works specified in the contract are completed in all respects, fit for use. It shall also mean removal of tools and plants, scaffolding, surplus material, rubbish etc and cleaning of the work site from debris, dust etc and making it fit for being taken over by the Department.

IV) INSTRUCTIONS FOR TENDERERS

General instructions to bidder regarding tendering process:

- The interested bidder can download the NIT / Bidding documents from the website: - www.jkwildlife.com
 - The Department will not be responsible for delay in submission of bids whatsoever reason may be.
 - Bidder should get ready with the scan copies of cost of documents & EMD as specified in the tender documents. The original instruments in respect of cost of documents EMD and relevant documents be submitted to the tender inviting authority by registered post/ courier as per time schedule specify.
 - The detail of cost of documents EMD specified in the tender documents should be the same as submitted otherwise bid will not be accepted.
1. The tenderer should in his own interest thoroughly, inspect and examine the site, its surroundings, nature of ground, climatic conditions, accessibility and other relevant parameters for deciding the strategy to be adopted for successful execution/completion of the work, at his own expenses and responsibility to satisfy himself fully before tendering for the advertised work.
 2. The tenderer should carefully study the document and prepare his tender with consideration of all provisions of the document. He should fully acquaint himself with site conditions and all other factors which may influence preparation of his tender.

3. Technical Bid :

The bids must be accompanied with cost of document in the shape of demand draft and earnest money in the shape of **CDR/FDR pledged to Wildlife Warden Jambu Zoo, Jammu , payable at Jammu** and the hard copies of the same should reach the office of **Wildlife Warden, Jambu Zoo, Manda Hills, Jammu on or before 17-01-2018 up to 02:00 PM**

The technical bid should contain the self attested copies of the following documents:-

S no.	Particulars	Amount of work	Financial turn over	Similar nature work
1	2	3	4	5
1.	Solar power work	Upto 100.00 lacs	Nil	Nil
2.	Solar power work	Above 100.00 lacs upto 200.00 lacs	40% of the advertised amount in any one year during last five years	Should have at least completed one work of similar nature the value of which should not be less than 1/5 th of advertised amount as a prime contractor in any one year during last five years.
3.		Above 200.00 lacs	As per terms and conditions of Notice inviting tender(NIT)	As per terms and conditions of Notice inviting tender(NIT)

- I. **Self attested** photocopy of Registration Card duly renewed for the current financial year.
- II. **Self attested** photocopy of PAN Card.
- III. **Self attested** photocopy of valid sale tax Registration certificate with TIN No./GST No.
- IV. Earnest Money (EMD).
- V. Tender Cost (DD).

VI. ITR last three year.

4. **PRICE BID** :-

Explanation:-

- The price bid should be absolute and unconditional. Conditional bids shall be rejected.
- The price bid shall be opened only in favour of bidders who qualify in the technical bid.
- Rate is required to be quoted strictly as per prescribed price bid format (enclosed).
- Rates, if any, in addition to those required, shall render the offer ambiguous and void.
- Rates if quoted against one item only shall also render the offer ambiguous and void.
- Price bids not conforming to above standards or suffering from any flaw shall be rejected.
- Item if any beyond scope of NIT is to be executed will be paid as per quoted rates above/below S.S.R 2012

5. **Validity of Tender** : It will be obligatory for the tenderers to keep offer of their quotation valid for a period of 90 days from the date opening of tenders.

6. **Time Limit** : The works covered in his tender document are required to be completed in all respects within the specified time as mentioned in NIT from the day of issue of letter of intent or allotment whichever is earlier.

7. **Date, Time and Place of submitting of Tender** : The Tender (Technical bid with price bid) must reach in the office of the **Wildlife Warden, Jambu Zoo, Manda Hills, Jammu** on or before **17-01-2018 up to 12:00 PM** by hand or registered/speed post/Courier will be accepted. The technical bid and financial bid shall be opened on **17-01-2018 at 03:00 PM** in the office of the **Conservator of Forest/Wildlife, Manda Hills, Jammu**)

8. **Price Bid** :

- This shall be opened for only those tenderers whose (Technical Bid) is entertained.
- The accepting Department however reserves the right to reject any or all the tenders without assigning any reason thereof.

9. **Award of contract** :

- The successful tenderers will be notified by the Department.
- A formal deed that is, the agreement incorporating all the terms and conditions of contract shall have to be executed by successful tenderer within seven days from the date of allotment.

10. Date of Commencement: The date of commencement of work, under this contract shall be reckoned from day letter of intent or allotment is issued by the Department, whichever is earlier.

11. Default:- In the event of failure on the part of contractor to achieve the required periodical progress or complete the contract in time, the Department shall without prejudice to the remedies available to the Government under any law for the time being in force, be competent to adopt all or any of the following courses.

- Rescind the contract for which rescission notice of 10 days in writing to the contractor shall be conclusive evidence and in which case the security deposit and CDR of the contractor shall be forfeited and be at the disposal of the Department.
- Measure up the work executed by the contractor and to take such part thereof as shall be unexecuted out of his hand and get the some executed / completed through alternate means/agency/contractor, at the risk and cost of the original contractor.
- Impose and recover such penalty as may be determined by the Engineering Wing in addition to the forfeiture of security deposit.
- In the event of any of the above courses being adopted by the Department, the contractor shall have no claim to compensation for any loss sustained by him for reasons of his having purchased or procured any material/equipment or entered in to agreement or paid any advance on account of or with a view to the execution of the work. In case the contract is rescinded under aforesaid provisions, the contractor shall not be entitled to be paid any sum for any work actually performed by him under this contract.

In any case, in which the powers conferred upon the **Conservator of Forest/Wildlife, Manda Hills, Jammu** / Engineering wing, by any clause under this notice shall have become exercisable, the non exercise thereof shall not constitute waiver of any of the conditions.

In the event of the Department putting in force any of the powers vested in it under the preceding clauses, it may, if so desired, take possession or order to take possession of any materials, tools, plants, stores, etc lying in or upon the works or the site thereof, belonging to the contractor or procured by him and intended to be used for the execution of the work or any part thereof. The Department may choose to' remove them at the contractor's expenses or sell them by auction or private sale and debit the amount towards contractor penalty. The certificate of the Engineering wing in respect of expenses incurred or the amount debitable to the contractor on account of any such sale shall be final, conclusive and binding on the contractor.

12. Claim:

- The contractor shall send to the Engineering wing once a month an account giving full and detailed particulars of all claims pertaining to any additional expenses to which he may consider entitled on account of extra or additional work ordered in writing by the Engineering Wing which he has executed during the preceding month.

➤ If the contractor considers that any work ordered in writing to be executed by him, to be outside the scope of this contract or any direction or order of Engineering Wing to be unfair, he shall immediately upon such work being ordered to be executed proceed with the execution of the work without delay. The contractor may if he so desires file a protest with the Engineering Wing stating clearly and in detail, basis of his objection or claims. The written protest filed by the contractor shall be forwarded to the Engineering Wing/Wildlife Warden Jambu with a copy to **Conservator of Forest/Wildlife, Manda Hills, Jammu** within one week with his remarks. The decision taken by the **Conservator of Forest/Wildlife, Manda Hills, Jammu** in this behalf shall be final and binding upon the contractor.

13. Taxes:- Payments of service tax/income tax and levies etc. whether Central or State have to be borne by the contractor under rules. Income tax etc and service tax shall have to be deducted from running bills of the contractor. If there is any escalation in taxes (Central or State) or if any, , new tax becomes applicale during the course of execution of work, the same shall be borne by the contractor.

14. Escalation :- During the period of completion of work, no price escalation in respect of material, machinery, equipment, labour etc. shall be entitled to the contractor.

15. Recovery of due amount: Whenever any claim against the contractor for the payment of any sum of money arises out under this contract, the Department shall be entitled to recover such sum by appropriating in part or in whole from the security deposit of the contractor or from any sum that may be due to him should the aforesaid sum be insufficient to cover the full recovery, the contractor shall pay to the Department on demand the balance amount or the same shall be recovered from him as arrears of land revenue. However, no such claim shall be entertained by the Department after final payment are made to the concerned contractor there after the contractor shall be solely liable for bearing all claims and consequence thereof.

16. Indemnity: In case of any dispute, accidents during the course of execution of the contract, the contractor shall be bound and solely responsible to meet and settle down all the claims at his own risk and cost.

17. Facilities at site: The contractor shall arrange and maintain at his cost necessary tracks/paths/vehicular tracks, walkway / plate form, ladders, stairways, water pumps, electricity and other facilities of usual and suitable character required for all operations of work and inspection, in such away as not to affect or cause inconvenience to other contractors/public.

18. Work to be open to inspection: All works in the course of execution in pursuance of this contract shall at all times be open to the inspection and supervision of department, Engineering Wing and their representatives and the contractor shall make all the necessary facilities at all times during the usual working hours and at all other times for which reasonable notice shall be given to the contractor.

19. Examination/ Inspection Before covering up: No work shall be covered up or put out of view without approval of the Engineering Wing/Department/Concerned authorities of the works and contractors shall afford full opportunity to him to examine and measure any such work before permanent work is placed thereon.

20. Defective and Bad work: If it shall appear to Engineering Wing that any work has been executed with unsound, imperfect or bad workmanship or with materials of any inferior description, the contractor shall when directed in writing by the Engineering Wing, forthwith rectify with sound and specified material and workmanship or remove or re-execute the part of work so specified as the case may be or remove the materials/ articles at his own cost notwithstanding the fact that the same may have been inadvertently passed/ certified or paid for previously. In the event of his failing to do so within the specified period, the contractor shall be liable to penalty provided for in the contractor/ document and the Department shall get it rectified or removal and re-execute the work or remove and replace the same as the case may be at the risk and cost of the contractor.

21. Damage to work during or after execution: If the contractor or his workers and servants break, deface or destroy any part or work or any other property in the vicinity of the works belonging to any person or on which they may be working, such structure , road curbs, embankments, fence enclosures, water pipes, cable, drains, electric or telephone posts or wires, trees, grass or grassland or cultivated ground etc, shall make the same good on his own cost and on failure of the contractor to do so, the Engineering Wing shall cause the same to be made good and deduct the cost thereof from any sums that may be due to the contractor under the contract or from his security deposits.

22. Extension of time : No extension of time specified for the completion works shall be granted or claimed by the contractor as a matter of right. However, if the work is suspended for some time on account of bad weather, floods, earthquake or fire or non-availability of materials or tools and plants etc or due to any cause beyond the control of the contractor and the Department, no compensation shall be paid to the contractor on account of the aforesaid reasons but reasonable extension in time shall be considered at the request of the contractor and discretion of the Department.

23. Equipment and Material: The contractor shall at his cost procure, supply and transport to site all materials etc for the works and bear all loading and unloading storage and other taxes payable thereof. The contractor shall arrange on his own all machinery like lifting and hauling equipments, welding and pneumatic equipments, special tools/plants and Engineering stores required for the work.

24. Contractors Representative/Site Engineer: The contractor shall keep on the site of works during its execution, competent and authorized Supervisors/Engineer to whom instructions concerning the works may be given from Engineering Wing of the works or his subordinates. The notices and written orders served and instructions given by the Engineering Wing/authorities concerned upon such supervision shall be deemed to have been served upon the contractor.

25. Character of Workmen: Contractor shall be bound to employ competent workmen for every kind of work. Any person employed on the work who refuses or neglects to obey the directions of the Engineering Wing/any other official of the Department, or who is considered incompetent to execute any part of the work or is disorderly or causes nuisance or who commits trespass upon public or private property in the vicinity of the works, shall be dismissed when the Engineering Wing so intimates and shall not be reemployed unless permission in writing is given in this behalf by the concerned Engineering Wing. Local labour shall be given preference to the labour from outside the State.

26. Alterations/Additions/Variations: The Engineering Wing with the approval of Department may make any variation of the form, quality and quantity of work or any part thereof that may, in his opinion be necessary and desirable. The Engineering Wing shall be empowered with the prior permission of the Department to order the contractor to do any of the following:-

- Increase or decrease the quantity of any work included in the contract.
- Omit any portion of work.
- Change the character or quality or kind of any work.
- Change the levels, lines, positions and dimensions of any part of the works and No such variations as aforesaid shall in any way violate the contract.

No such variation shall be made by the contractor of his own without an order in writing of Engineer. If at any time after the commencement of the works, the Engineering Wing for any reason whatsoever does require the above mentioned changes to be carried out the (Engineering Wing) shall give notice in writing in this behalf to the contractor. The contractor shall not also claim any compensation by reasons of any alteration having been made in the original specification, drawing, design and instructions which involve any curtailment or an addition, of the works as originally contemplated of his own.

27. Valuation of Extra Items: The Engineering Wing with the prior approval of Department shall authorize the contractor in writing to perform any extra item of work or furnish extra material not covered by the specification or not included in this contract but forming inseparable part of the works under this contract. If the contract does not contain any rates applicable to the extra or additional work, then reasonable rates as specified hereunder shall be fixed by the Department.

- By analysis from the nearest item in the contract.
- Items not covered by the above provisions shall be paid on analysis bases on rate of labour and material required for completion of work at market rates plus 10% contractor's profit. For this purpose, a contractor shall keep and maintain in such form, as the Department shall direct, a correct account of cost supported by sufficient details. The rates for these extra items as approved by the Department shall be final and binding on the contractor.

28. Local Laws and Rules: The contractor shall abide by all regulations and laws of Forest, Wildlife (civil/criminal) Revenue, Fisheries and other Authorities, including Municipalities, Town Area Committees etc. For any violation he shall be liable to be dealt with under the relevant laws/Acts. **No compensation whatsoever on this account shall be payable to the contractor by the Department.**

29. Protection of Works and Adjoining Property: The contractor shall be responsible for the care of materials partially or wholly completed works until same are taken over by the Department duly completed by the contractor in accordance with the terms of the contract. The contractor shall make goods at his own expenses for the damages which the work may sustain from any cause whatsoever prior to the taking over of the same by the Department. The contractor shall also be responsible to make good at his own expenses, the damages caused to the adjacent property, due to this act or negligence of his employee or caused in the course of execution of contract. The Department shall not entertain any claim in this regard.

30. All materials taken out of site of the work is and shall be property of the Department.

31. Subletting: The contractor shall not assign or sublet the work in whole or part to any agency without written orders of the Department and if the contractor shall assign or sublet this contract, or attempt to do so or becomes insolvent or commences any insolvency proceedings to make any composition with his creditors or attempt to do so, or if any bribe gratuity, gift, lone, pre-requisite reward, or advantage pecuniary or otherwise shall either directly or indirectly be given, promised or offered by the contractor or any of his servants or agents to any public officer or person in the employment of Government in any way relating to this office, the contractor shall be solely responsible for the consequences which besides other penalties/actions may entail termination of contract and forfeiture of deposit, bank guarantees and other due payments if any.

32. Works Register: It is the duty of the contractor to maintain/sign the works register and measurement book, wherein measurements are recorded. In case of his failure to do so, the measurements recorded by the Department staff will be binding upon the contractor. No claim whatsoever on this account will be entertained by the Department.

33. Clearance of Work Site: Contractor shall not deposit materials on site which will cause inconvenience to the public or which is in contravention of the orders of the Engineering Wing/Department/Wildlife Warden. The Engineering Wing/ Department/Wildlife Warden may direct the contractor to remove any materials, which are considered by him to be a source of danger or inconvenience to the public or other contractors in contravention of his orders and cause them to be removed at the contractors cost.

34. The contractor shall be duty bound to maintain his allotted work and keep it weed free at all times and till release of final payments in case of failure of the contractor on this account, the Department shall be at liberty to maintain and clean up the block/section at the risk and cost of the contractor.

35. Certificate of Completion: The works shall be deemed to have been duly completed when the Department certifies in writing that the works have been completed in all respects by the contractor. But no such certificate shall be given or the works shall not be considered to be duly completed until the contractor commissions the work to the entire satisfaction of the Department, removes materials, rubbish and cleans off debris and weeds from the site and all parts of the structure as per the requirements of the Department. If the contractor fails to comply with the requirements of this clause as to the removal of scaffolding, surplus materials, rubbish and cleaning of debris and weeds on or before the date fixed for the completion of the work, the Engineering Wing/Department shall remove such scaffolding materials and rubbish, weeds and dispose of the some as he thinks fit and clean up such debris at the cost of contractor. The contractor shall have no claim in this respect.

36. Insurance: Any accidental or incidental occurrence during the course of execution shall be entirely liability of the contractor. The contractor has to observe due care and caution as not cause damage to life/honour/property or cause mishap, nuisance. The insurance cover of the team members working for the project shall be responsibility of the contractor.

37. Clarification: For any further information/explanation/clarification, if required, the intending tenderers may contact Assistant Department of Wildlife Protection, Jammu during

office hours at office of Chief Conservator of Forest/Wildlife, Manda Hills Jammu or Wildlife Warden Jammu.

38. Decision of Chief Wildlife Warden, Jammu & Kashmir to be final: Except where otherwise specified in this contract, the decision of **Chief Wildlife Warden** Jammu & Kashmir shall be final, conclusive and binding upon the contractor on all questions relating to the meaning of the specifications, design, drawings and instructions herein before mentioned and as to the quality, the workmanship or materials used for the work.

39. Demarcation "Supply, installation, testing & commissioning of 12 / 18 W LED-based solar street light system complete with lamp, luminaries and fittings at Jambu Zoo, Khanpur Nagrota, Jammu for the Year 2017-18. shall be strictly on the alignment provided by the Engineering wing (AEE/JE) concerned. In case of any disputes related to demarcation, CF (Wildlife)/ RWLW will be the final authority to settle demarcation disputes.

40. No contractor shall can participate in this tender who has been already been black listed by an Govt. agency/ office.

41. Guarantee/ Warranty Period: The tenderer shall guarantee all the materials/equipments supplied by him & works executed by him against any defective design, manufacture & workmanship for a period of 24 months from the date of handing over to the department.

42. The tenderer shall quote FIRM rates for all items as per the price schedule/advertised rate list and not more than the limit fixed by MNRE.

43. Arbitration:- In case of any doubt, dispute or difference what so ever shall arise between contractor & the department either of the parties give the other notice in writing & same shall be referred to Chief Wildlife Warden J&K, who shall nominate any officer for arbitration under J&K Arbitration Act. The decision of the arbitrator shall be final & binding on parties.

44. Termination of Contract:- In case the contractor fails to comply to the terms & condition of the contract or fails to replace defective materials/equipments, within the stipulated period, the department shall without prejudice to other remedies available to it under law, be competent to terminate the contract after 30 days clear notice to contractor & forfeited of security deposited thereof. Penalty of 10 % of the value of contract shall be imposed if contractor fails to execute the work in time or fails to maintain the system during the guarantee period.

45. In addition to the terms covered in the schedule of work & specification, the following shall be included in the scope of work within the quoted rates.

46. The short listed firm shall give presentation (PPT) regarding the design and technical specification before the coordinate committee.

Invitation to Bid

Sealed, Separate Bids, “Technical” and “Financial” Bid are invited from ***eligible bidders*** for the project: **“Supply, installation, testing & commissioning of LED-based solar street light system complete with lamp, luminaries and fittings of 12/18W LED-based Solar Street Lighting System with 2 year warranty period obligations.**

The ***eligible bidder*** means a solar power company, or a manufacturer or authorized distributor or authorized dealer of LED Lights / Solar Street Lights or consortium of registered firms engaged in similar work, but shall include either a solar power company, or a manufacturer or authorized distributor or authorized dealer of LED Lights / Solar Street Lights.

BID DETAILS

Name of the work:

“Supply, installation, testing & commissioning of 12 / 18 W LED-based solar street light system complete with lamp, luminaries, fittings & 2 year warranty period obligation.”

1.0 Background

a) To promote the efficient use of energy and its conservation, Govt. of India enacted the Energy Conservation Act, 2001 and subsequently Bureau of Energy Efficiency (BEE), was established in 2002 by Govt. of India.

b) Desires to implement energy efficiency in the street light system and wants to install **12 / 18W LED based Solar Street Lights.**

Eligible Bidders

- a. The bidder may be any manufacturer, authorized dealer, system integrator or body corporate or association or body of individuals, whether incorporated or not or artificial juridical person or a group of Companies, coming together to bring in the requisite technical and financial capabilities to implement the Project (hereinafter referred to as –Consortium). The term Bidder used hereinafter would therefore apply to both a single entity and a Consortium. And the bidder shall consist of either a solar power company, or a manufacturer or a distributor or a dealer of LED lights / Solar street lights.
- b. Upon award of a work to a Bidder (Company, Firm or Consortium), the work shall be implemented only by the Bidder
- c. In case of a Bid by a Consortium all members of the Consortium shall be collectively evaluated for the technical stage. An entity can be member only in one consortium.
- d. The Bidder would designate and authorize one of its members as the Lead Member to act on behalf of the Bidder, in the case of consortium.
- e. The Lead Member of a Consortium would be responsible for implementing the project at all times starting from the signing of the Implementation Agreement

and until the work is fully commissioned. The Lead member will be responsible for entering into all agreements / commitments pertaining to the award of the project.

- f. The Consortium shall submit a Memorandum of Understanding (MOU) as part of its Bid document with the following details:
 - i. State that the members of the Consortium will agree upon and form, a consortium to implement the Project awarded to the Consortium prior to signing of the Agreement.
 - ii. Clearly outline the proposed roles and responsibilities of each member of the Consortium

2.0 Technical Specification

3.1 LED Light Fitting shall meet the following parameters, quantity about 185 numbers (plus minus 10%) for any category (12 w or 18 w LED & 3 mtr or 5 mtr height) conforming to meet the illumination standards and requirement:

Supply Source	(12 V DC)
Expected Luminous Efficacy	100 lumens/watt
Output lux	25(Avg.) at ground level
Usage hours	12 hrs per day
Power Consumption	Unique to each category
Electrical Connector	Lead Wire with sufficient length and size and insulation/sheathing.
Power Factor	0.9 (min)
Life expectancy	About 50,000 glow hours
Control Circuit:	Solar charge controller with dusk to dawn and dimming features
Casing Material	Water Proof, UV stabilized reinforced, Plastic or treated plastic with IP65
Battery	Lithium ion battery 11.1 V, 195WH for 12 Luminaire, 11.1 V, 475WH for 18 W luminaire
Design	vintage style
Solar panels	PV Module made of poly crystelene silicon cell as per IEC 61215 MNRE approved from authorized test centre, 12 V 40Wp for 12 W luminaire and 12 V 100Wp for 18 W Luminaire.

3.0 Details on bid submission

The Bid shall be submitted in two parts, viz.

- Envelop I: –Technical Bid;
- Envelop II: –Financial Bid; and
- both the Envelops I & II to be placed and sealed inside Envelope III

4.1 Envelop I: shall be super scribed as:

TECHNICAL BID: “Earnest Money and Technical details and documents for Supply, Installation, and Testing & Commissioning of 12 / 18 Watt white LED based Street lighting system with 2 year warranty period obligations

Technical bid shall contain:

- i. Covering letter duly signed by the authorized signatory and stamped in the letter head of the bidder as per the **Appendix 1**
- ii. Earnest Money Deposit of 2,00,000/- Lacs in the form of Demand Draft drawn in favour of Wildlife Warden Jambu Zoo. The details of EMD shall be filled in as per **Appendix 2**
- iii. Guaranteed technical particulars as per **Appendix 3**
- iv. The bid documents duly signed by authorized signatory in each page and stamped.
- v. Proof that bidder is either a solar power company, or a manufacturer or authorized dealers/distributor of LED lights / Solar street lights; and if it is a consortium specifically made for this project the consortium consists a solar power company, or a manufacturer or authorized dealers/distributor of LED lights / Solar street lights and submit formal Memorandum of Understanding (MoU) of such consortium

4.2 Envelop II : shall be super scribed as:

“Price Bids for Supply, Installation, Testing & Commissioning of 12 / 18 Watt white LED based Street lighting system with 2 year warranty period obligations.

Financial bid shall contain only the duly filled in Price Bid Format as per **Appendix 4** duly signed and stamped by signatory and Covering letter duly signed by the authorized signatory and stamped in the letter head of the bidder. The price shall be quoted in figure as well as in words. This envelop should be sealed and stamped.

4.3 Envelop III: shall be super scribed as:

Technical & Price Bids for Supply, Installation, Testing & Commissioning of 12 / 18 Watt white LED based Street lighting system with 2 year warranty period obligations

Envelope III shall contain sealed Envelops I & II. This envelop should be sealed and stamped and address marked

4.0 Specific Instruction to Bidders

5.1 Late submissions or incomplete bids shall be rejected

5.2. The Bid without Earnest Money Deposit shall be rejected.

5.3 Each Bidder should submit only one (1) bid. Any Bidder or Lead Member of a Consortium, which submits or participates in more than one bid would be disqualified and would also cause the disqualification of the Consortium in which it is a member.

5.4 The Bidder shall be responsible for all the costs associated with the preparation of its bid and its participation in the bidding process. The Department will not be responsible or in any way be liable for such costs, regardless of the conduct or outcome of the Proposal.

5.5 The bidders should carry out the complete scope of work in its entirety.

5.6 The Technical proposal shall not include “Financial Bid”.

5.7 Validity The bidder shall specifically mention the period of validity of the Bid. The period validity shall not be less than **90** days as specified in the Last date of submission of Bids. If any bidder withdraws his Bid before the said period or makes any modifications in the terms or conditions of Bid which are not acceptable, then the department shall without prejudice to any other rights or remedies shall forfeit the said amount of earnest money.

5.8 Price

a) The price quoted shall be fixed and firm and not subjected to any escalation or variation.

b) The bidder shall acquaint with the work and working conditions at site and locality. No claim shall be entertained on this issue after the bid has been submitted.

c) All or any accessories/consumables/items required for satisfactory commissioning of the work shall be deemed to be included in the contract and shall be provided by the bidder without extra charges .

5.9 Withdrawal/ Modification of the offer Earnest money shall be forfeited in case of withdrawal/modification of an offer within the validity period

6.0 CERTIFICATES AND INSTRUCTION BOOK ETC.

The successful bidder shall furnish the soft copy and One set of hard copy well filed/bound, and indexed for easy and comprehensive reference of Printed Pamphlets, Catalogues, technical specifications.

7.0 Guarantee

All equipments and entire installation shall be guaranteed for a period of 2 years from the date of taking over the installation against performance, break design, workmanship, and material. The equipments or components, or any part thereof, so found defective during guarantee period shall be forthwith repaired or replaced free of cost, to the satisfaction of the Wildlife Department.

QUALITY, WARRANTEE

1 The contractor shall warrant the LED based Solar Street Lights as per applicable standards of quality. Anything to be furnished shall be new, free from all defects and faults in material and workmanship. The manufacture shall be in accordance with the

specified technical parameters and should be of the highest grade and consistent with established and generally accepted standards for material. It shall be in full conformity with the drawing or samples if any and shall operate properly if operable.

2 After erection of the LED Based Solar Street Lights at site, the contractor shall ensure satisfactory performance of the equipments for a period of time as specified in the scope of work.

3 The contractor shall rectify defects developed in the Systems within Warrantee period promptly. In case the contractor does not rectify the defects within 10 days of the receipt of complaint, WILDLIFE WARDEN JAMBU ZOO (DEPARTMENT OF WILDLIFE PROTECTION) may restore the System in working condition on contractor's expenses.

4 Frequent and unjustified delays in rectifying defects may lead to cancellation of the contract, recovery of losses and imposing of additional penalty. In such circumstance WILDLIFE WARDEN JAMBU ZOO (DEPARTMENT OF WILDLIFE PROTECTION) shall have the full liberty to recover the losses/penalty from the contractor pending claims, security deposit or in other law full manner. The amount of losses/penalty shall be decided be CHIEF WILDLIFE WARDEN J&K (DEPARTMENT OF WILDLIFE PROTECTION) and will be binding on the contractor.

9.0 Jurisdiction

Every dispute, difference, or question which may at any time arise between the parties hereto or any person claiming under them, touching or arising out of or in respect of the tender or the subject matter thereof shall be referred to the arbitration.

10.0 TERMS OF PAYMENTS

a) 50% of the payment shall be released supply of material on pro- rata basis.

b) 20% of the payment shall be released after complete installation, testing & commissioning.

(c) 20% amount of the work value shall be paid after 3 months from the date of installation and commissioning of Solar Street Light Systems at site. Security money deposited by the contractor at the time of signing of contract agreement will also be released at this stage.

d) Remaining 10% shall be released on completion of 24 months of guarantee period.

11.0 Technical evaluations of the bids:-

a) The Technical Evaluation of Bidders shall be carried out based on the capability to achieve the objective of the scope of work, as detailed in this Bid.

b) "**Wildlife Warden Jambu Zoo** reserves the right to accept any or reject any or all bids in full or part including the lowest, without assigning any reasons thereof or incurring any liability thereby.

12.0 Financial Bid" of only technically qualified bidders shall be opened.

13.0 The successful bidder shall be called upon to enter into an agreement on prescribed form, as shown in Appendix 5.

APPENDIX 1

FORMAT FOR COVERING LETTER-CUM-WORK UNDERTAKING

(In bidders Letter head)

To

The Wildlife Warden

Jambu Zoo,

Jammu

Sir,

Ref: Work of Supply, installation, testing & commissioning of 12 / 18 Watt White LED based solar Street lighting system (pole height 3mtr/5 mtr) with 2 year warranty period obligations.

Being duly authorized to represent and act on behalf of.....(hereinafter referred to as “the Bidder”), and having reviewed and fully understood all of the information provided in the Bid document provided to us in respect of the captioned work, the undersigned hereby submits the offer in response to the Bid documents for your evaluation. Please find enclosed our Bid document in one (1) original and two (2) copies, with the details as per the requirements of the Bid document.

We confirm that our Proposal is valid for a period of 90 days from the due date of submission.

.....

Signature of the Authorized Person

.....

Name of the Authorized Person

Date

Note: On the Letterhead of the Bidder or Lead Member of Consortium (To be signed by the Lead Member in case of a Consortium).

APPENDIX 2

DETAILS AND MODE OF REMITTANCE OF EARNEST MONEY DEPOSIT

1. DD No. & Date

2. Name of Drawer Bank/Branch

3. DD Drawn in favour of

4. DD Amount (in figures and words)

5. Payable at

.....

Signature of the Authorized Person

.....

Name of the Authorized Person

Date

APPENDIX 3

GUARANTEED TECHNICAL PARTICULARS

S. No.	Parameter	Guaranteed Value
1	LED Operating Current	12 / 18 w max1.5 AMPS input current 1.67 AMPS output current 90% efficiency
2	Output Luminous Flux	2700 LUMENS
3	Beam Angle	120 Degree
4	Luminance	100 Lumens per watt after diffuser
5	Weight	4 kgs approx for Luminary
6	Conformity with IP-65 luminaries	Yes housing is IP 65
7	LED Life	50000 working hours
8	Features	Dusk to dawn operation intelligent dimming to be provided so that the controller should judge the battery charged capacity and accordingly the current should get adjusted so that the luminary runs for 12 hrs. deep discharge protection to be provided.

.....

Signature of the Authorized Person

.....

Name of the Authorized Person

Date

DETAILS OF EXPERIENCE

Please fill in information about Systems installed in last three years.

Details	Year					
	2014-15		2015-16		2016-17	
	Quantity in Nos.	Cumulative Capacity in KW	Quantity in Nos.	Cumulative Capacity in KW	Quantity in Nos.	Cumulative Capacity in KW
Solar Lanterns						
Solar Home Lights						
LED based Solar Street Lights						
PV Power Plants						
Other Systems (Specify) 1. 2. 3.						
Total capacity in KW						
Total contract amount						

(Signature of Tenderer)

Seal

NOTE: Completion certificates and satisfactory performance reports from the users regarding experience should compulsorily be attached with the tender document as documentary proof. WILDLIFE WARDEN JAMBU ZOO (DEPARTMENT OF WILDLIFE PROTECTION) may cross check the authenticity of the attachments with issuing authority.

Details of Sale/Service Centers

In J&K

S.N.	Name of District	Details of Sale/ Service Centers with contact Nos.
1.		

Outside J&K:-

S.N.	Name of State	Details of Sale/ Service Centers with contact Nos.
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Signature and Seal of the Tenderer

APPENDIX 4

PRICE BID FORMAT

S. No	Supply, Erection, Testing, commissioning, documentation, and maintenance for 2 years obligations including taxes, duties complete for Jambu Zoo	Rate, Rs.	Per Unit	Amount, Rs (In Figures and Words)
1	12 Watt White LED Lamps, complete with fittings with 5 mtr height above ground			
	12 Watt White LED Lamps, complete with fittings with 5 meter height above ground			
2	18 Watt White LED Lamps, complete with fittings with 5 mtr height above ground			
	18 Watt White LED Lamps, complete with fittings with 5 mtr height above ground.			

We confirm that our Proposal is valid for a period of 90 days from the due date of submission.

.....

Signature of the Authorized Person

.....

Name of the Authorized Person

Date

APPENDIX 5

FORM OF AGREEMENT (IN STAMP PAPER)

(Notified affidavit to be submitted on Rs. 100/- Non Judicial Stamp Paper)

Article of Agreement No.....made
the.....Day of.....200... between
Shri..... (here enter name,
designation and address of agreement authority) acting for an on behalf of the
..... (*herein after* called the “XXXXX”) of the one part

and Shri.....of.....and Company Limited incorporated
under the.....and having its registered office
at.....(hereinafter called the Contractor) on the other. WHEREAS the
XXXXX is taking up the work of.....in connection with
the.....project.

AND WHEREAS the XXXXX is desirous of starting the actual work of the.....at
an early date for the benefit of the people AND WHEREAS the XXXXX has invited
tenders for the work ofAND WHEREAS the Contractor has tendered
forwork as per specifications, drawings and
conditions mentioned herein after and appended to this.

AND WHEREAS XXXXX has been pleased to accept the bid for without any
modification/with the modifications incorporated as annexure.

Now these presents witness and it is hereby mutually agreed as follows.

In this agreement words and expressions shall have the same meaning as are
respectively assigned to them in the conditions of contract herein after referred to.

ARTICLE 1 – SCOPE OF WORK

The Contractor shall perform everything required to be performed for
the execution ofproject as described in and could be
gathered from the documents appended herewith so that they will be finished in
complete form as possible. He shall provide and furnish all labor, materials, tools,
plant and equipments, design, manufacturing and supply of mechanical and electro
mechanical equipments and incur all other expenses required to perform the work
except to the extent provided in the attached documents and he shall complete every
item of work in workman like manner complete in every respect strictly in accordance
with drawings, specifications and conditions of contract as finally agreed to.

ARTICLE II - PAYMENT In consideration of what the Contractor does under the
provisions of this contract, strictly in accordance with the terms thereof the XXXXX
agrees to pay the Contractor in Indian currency for the work as shown in the work
order which includes all the items of work contemplated under the agreement at
payment conditions mentioned therein.

ARTICLE III- **COMPLETION** The date of completion of work under this contract shall be 60 days from the date of award of Contract and shall be diligently prosecuted until it is complete.

ARTICLE IV-COMPONENT PARTS OF THE AGREEMENT

The Contract documents among other things consist of this agreement on stamp paper. Bid document consisting of

Volume I - Bid Document

Volume II - Appendix of Technical particulars and prices submitted by bidder

Schedule of prices as finally accepted.

ARTICLE V- SERVICE OF NOTICE:

Every notice to be given to the contractor may be given to him personally or left at his residence or last known place of abode or business or handed over to his agent, personally or may be addressed to the Contractor by post at his usual or last known place of abode of business and is so addressed and posted shall be deemed to have been served on the contractor on the date on which in the ordinary course of post, a letter so addressed and posted would reach his place of abode of business.

In witness where of the parties here to have here unto set their hands the day and year first above written, Signed, sealed and delivered..... (agreement authority) on behalf of the _____.

Agreement Authority

In the presence of:

Full name,

Address and Signature Full name,

Address and Signature Signed, sealed and delivered by.....

Contractor.

In the presence of:

Full name,

Address and Signature Full name,

Address and Signature.

Other conditions

INSPECTION AND TESTS

Bidders have to submit their test certifications for all the requisite components. In case in the testing at MNRE approved test center, the system is not found in accordance with the required technical specifications, all the systems supplied shall be rejected. All the work order(s) shall be canceled and all the payments made by WILDLIFE WARDEN JAMBU ZOO (DEPARTMENT OF WILDLIFE PROTECTION) to the contractor shall be recovered. Such contractor shall also be blacklisted from participating in any tender in Department in future. MNRE and other State Nodal Agencies of MNRE shall also be informed for the necessary action against such contractor.

SPARE PARTS

The contractor shall make arrangement to maintain a sufficient stock of essential spares and consumable spare parts to ensure proper maintenance of the system promptly.

INSURANCE

The goods supplied under the contract shall be fully insured against loss or damage incidental to manufacture or acquisition; transportation and the expenses shall be borne by the contractor.

The contractor shall arrange security & storage of their materials to avoid any theft or losses during execution of work. WILDLIFE WARDEN JAMBU ZOO (DEPARTMENT OF WILDLIFE PROTECTION) will, in no case, shall be responsible for providing any security/storage for the materials & equipments lying at site during execution of work. Under the contract contractor shall be responsible for any loss or damage until the systems/ supplies are taken over.

The contractor shall not display the photographs of the work and not take advantage through publicity of the work without written permission of WILDLIFE WARDEN JAMBU ZOO (DEPARTMENT OF WILDLIFE PROTECTION).

The contractor shall comply with the all the Acts & rules and regulations, laws and by-laws framed by State/ Central Government/ organization in whose premises the work has to be done. WILDLIFE WARDEN JAMBU ZOO (DEPARTMENT OF WILDLIFE PROTECTION) shall have no liabilities in this regard.

PV MODULE

- (i) Indigenously manufactured PV module should be used.
- (ii) The PV module should have crystalline silicon solar cells and must have a certificate of testing conforming to IEC 61215 Edition II / BIS 14286 from an NABL or IECO accredited Laboratory.
- (iii) The power output of the PV module under STC should be a minimum of 40 Wp for 1m² area.
- (iv) The open circuit voltage of the PV modules under STC should be at least 21.0 Volts.
- (v) **The module efficiency should not be less than 12 %.**
- (g) **A distinctive serial number starting with WILDLIFE WARDEN JAMBU ZOO (DEPARTMENT OF WILDLIFE PROTECTION) /LED- SSL/2017-18 will be**

engraved on the frame of the module or screen printed on the tedlar sheet of the module.

LIGHT SOURCE

- (i) The light source will be a white LED type.
- (ii) The colour temperature of white LED used in the system should be in the range of 5500^oK–6500^oK.
- (iii) W-LEDs should not emit ultraviolet light.
- (iv) The lamps should be housed in an assembly suitable for outdoor use.
- (v) The temperature of heat sink should not increase more than 20^oC above ambient temperature during the dusk to dawn operation.
- (vi) The LED of CREE/ NICHIA/ OSRAM/ PHILIPS/ CRESCENT/ LUMILEDS/LEDNIUM/ SCHREDER Make or equivalent shall only be used.

ELECTRONIC PROTECTIONS

- i. Adequate protection is to be incorporated under “No Load” conditions e.g. when the lamp is removed and the system is switched ON.
- ii. The system should have protection against battery overcharge and deep discharge conditions.
- iii. The short circuit protection should be provided.
- iv. Protection for reverse flow of current through the PV module(s) should be provided.
- v. Electronics should have temperature compensation for proper charging of the battery throughout the year.
- vi. Adequate protection should be provided against battery reverse polarity.

MECHANICAL COMPONENTS

- i. A corrosion resistant metallic frame structure should be fixed on the pole to hold the SPV module.
- ii. The frame structure should have provision to adjust its angle of inclination to the horizontal between 0 and 45, so that the module can be oriented at the specified tilt angle.
- iii. The pole should be made of Cast Iron Based / MS Iron pipe ISI Mark 2½ inch dia & 3.24 MM thickness” duly painted golden and black colour.
- iv. The height of the pole should be 5 metre height above ground level or as per the requirements vetted by office , after 1 meters grouting with PCC 1:2:4 periphery 30 Cm. and final installation.
- v. The pole should have the provision to hold the luminaire.
- vi. The lamp housing should be water proof and should be painted with a corrosion resistant paint.

INDICATORS

The system should have two indicators, green and red. The green indicator should indicate the charging under progress and should glow only when the charging is taking place. It should stop glowing when the battery is fully charged.

Red indicator should indicate the battery “Load Cut Off” condition.

WARRANTEE

- (i) The complete Solar Street Light(Including battery) and overall workmanship must be warranted against any manufacturing/ design/ supply/ installation defects for a minimum period of 2 years from the date of installation.
 - (ii) PV modules used in LED Based Solar Street Lights 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.
 - (iii) The Warrantee Card to be supplied with the Solar Street Light must contain the details of the system supplied, as given in the Annexure- 1. The manufacturers can provide additional information about the system and conditions of warranty as necessary.
 - (iv) During the 2 years warrantee & comprehensive AMC period, MNRE / WILDLIFE WARDEN JAMBU ZOO (DEPARTMENT OF WILDLIFE PROTECTION) / users will have all the rights to cross check the performance of the LED Based Solar Street Lights. WILDLIFE WARDEN JAMBU ZOO (DEPARTMENT OF WILDLIFE PROTECTION) may carry out the frequent inspections of the LED Based Solar Street Lights erected. If during tests the LED Based Solar Street Lights or its any component is not found as per the specified technical parameters, WILDLIFE WARDEN JAMBU ZOO (DEPARTMENT OF WILDLIFE PROTECTION) will take the necessary action to recover the losses and to blacklist the firm and the same may be communicated to MNRE and other nodal agencies. The decision of CHIEF WILDLIFE WARDEN J&K (DEPARTMENT OF WILDLIFE PROTECTION) in this regard will be final and binding on the tenderer.
- Training of at least one staff /official shall be mandatory for attending the routine maintenance works promptly. List of the trained person shall have to be submitted by the contractor to the concerned Range officer of WILDLIFE WARDEN JAMBU ZOO (DEPARTMENT OF WILDLIFE PROTECTION).

OPERATION & MAINTENANCE MANUAL

An Operation, Instruction and Maintenance Manual, in English and Hindi/Urdu language, should be provided with the Solar Street Lighting System. The following minimum details must be provided in the Manual:

- Basic principles of Photovoltaic
- A small write-up (with a block diagram) on Solar Street Lighting System - its components, PV module, battery, electronics and luminaire and expected performance.
- Type, Model number, Voltage & capacity of the battery, used in the system.

- The make, model number, country of origin and technical characteristics of W-LEDs used in the lighting system.
- About Charging and Significance of indicators.
- Clear instructions about erection of pole and mounting of PV module (s) and lamp housing assembly on the pole.
- Clear instructions on regular maintenance and trouble shooting of the Solar Street Lighting System.
- DO's and DONT's.

Name and address of the contact person for repair and maintenance, in case of non-functionality of the solar street lighting system

TEST REPORTS

Tenderer must have valid test report of LED Based Solar Street Light from any MNRE approved test centers fulfilling guidelines of MNRE.

OTHER FEATURES

- (i) There will be a Name Plate on the Pole of every system, which will give:
 - (a) Name of the Manufacturer or Distinctive Logo on every pole.
 - (b) Serial Number. Starting with JAMBU ZOO/LED-SSL/ Month & Year of installation
- (ii) Components and parts used in the solar street lighting systems should conform to the latest BIS/IEC specifications, wherever such specifications are available and applicable.
- (iii) The supplier must fulfill all the technical & other requirements as per provisions under JNNSM.
- (iv) Only indigenously manufactured LED Based Solar Street Lights which fully conform to the MNRE specifications shall be procured. Fully imported LED Based Solar Street Lights shall not be procured. However use of imported components (Excluding PV Module) would be permitted in the manufacturing of LED Based Solar Street Lights, subjected to adequate disclosure and compliance to specified quality norms and standard.

Copy submitted to the:

1. Pr. Chief Conservator of Forests (Wildlife)/ Chief Wildlife Warden, J&K Government for favour of information please.
2. Conservator of Forests (WL) Jammu Region for information.
3. Joint Director, Information Department, Jammu for favour of information and necessary action with the request that the above notice may kindly be got published in all leading English/Hindi/Urdu daily news papers consecutively for two or three days.
4. Asst. Executive Engineer, Wildlife Protection, Jammu for information and necessary action.
5. Range Forest officer, Jambu Zoo for information & necessary action.
6. Notice Board.

**Sd/-
Wildlife Warden
Jambu Zoo, Jammu**