

Schedule Bid for Expression  
of Interest for selection of  
vendor for Supply &  
Installation of LED based  
Solar Street Light System

Jeypore Municipality  
Jeypore

# MUNICIPAL OFFICE : JEYPORE

Phone 06854-231098 Fax 06854-230104 E-Mail:-jayaporem.hud@nic.in

L. No. 3704

Dated. 29/08/21

## Invitation of Expression of Interest

Jeypore Municipality, Jeypore invites sealed bid on Expression of Interest for selection of Vendor and unit price for various types of Solar LED Street Lights from the reputed manufacturing companies, Electrical / Solar Contractor, suppliers and authorized dealers with valid MV/ LT License wherever as applicable from the Govt. of Odisha either in individual capacity or joint venture firm in 2(two) bid system. The bidder who fulfils all qualifications and criteria as specified can submit the expression of interest for the purpose. The quoted price shall exclusive of GST but inclusive of other taxes and conveyance charges for supplying installation, commissioning including erection and installation and post maintenance for 5 years warranty for replacement in-situ in different Slum area of Jeypore Municipality

The detailed specifications, General Terms & Conditions Scope of work has been provided in scheduled Bid document at Annexure-1, II & III.

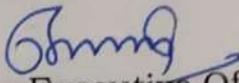
The bid documents can be obtained from the office of the Office of the Jeypore Municipality on payment of Rs 10,000/- (Rupees ten thousand only)(Non Refundable) in shape of bank Draft drawn in favour of Executive Officer ,Jeypore Municipality Payable at Jeypore during the office hours from 27/08/2021 to 18/09/2021 till 4.30 P.M (Excluding holidays) towards cost bid papers

The filled up bid documents shall be enclosed in a sealed envelope super scribing "Bid for supply and installation of LED based Solar Light System. **The bid papers completed in all aspect shall be submitted to "Executive Officer ,Jeypore Municipality , Jeypore, Koaput , PIN - 764001 " through Speed Post/Registered Post Only** The bid documents received beyond the stipulated date & time agencies shall be rejected. The last date for submission of EOI is 20/09/21 till 2 P.M and the EOI will be opened at 3.30 PM in of the bidder or their authorized representative

The scheduled bid documents can also be downloaded from Koraput District website i.e. <https://koraput.nic.in/> and Jeypore Municipality website i:e <https://jeyporemunicipality.in> In such case the bidder shall enclose Bank Draft/ Demand Draft Rs.10,000 / - (non-refundable) drawn in favour of Executive

Officer , Jeypore Municipality , Jeypore along with the bid papers as a cost of bid documents. The successful bidder, if approved by the competent authority may be enlisted/ empanelled as vender for the Jeypore Municipality for one year from the date of approval.

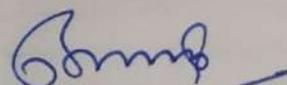
The authority reserve all rights to cancel all bids or any of the bid documents without assigning any reason thereof.

  
Executive Officer  
Jeypore Municipality

MemoNo.....3705.....

Date.....24/8/2021.....

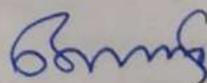
Copy to Joint Director I&PR ,Odisha,Bhubaneswar for information and necessary action with a request to Publish it in two newspaper in the local edition for one day only and submit the credit bill for payment

  
Executive Officer  
Jeypore Municipality

MemoNo.....3706.....

Date.....24/8/2021.....

Copy to the District Information Officer ,NIC ,Korpaut with a request to host in the District website

  
Executive Officer  
Jeypore Municipality

Technical Specification:  Solar Street Light

**ALL-IN-ONE Solar Street Light** is made in India with High Efficiency Multi Crystalline Solar PV Module, Lithium Ferro Phosphate battery, High Efficiency LED with MPPT Solar charger Controller & Aluminum Extruded/PDC body, ALL IN ONE is specially designed with PIR Motion Sensor to control the Light ON/OFF during any activity near the light which increase the backup time and life of LiFePO4 battery

**LED Luminaries with Fittings**

Sl.No	Technical Specification:	18Watt
1	Luminaire Wattage	18Watt
2	Led Make	Havells /BAJAJ/PHILIPS/Any other reputed brand
3	LED VIEWING ANGLE	120°
4	Color Temperature	5700k-6500k
5	Luminous Efficiency	>170Lumen/watt
6	Lumen Output	>3400Lumen
7	Life Span	>50000hours
8	Driver	In Built DC-DC type
9	Body	Aluminum Extruded/ PDC Body
10	Protection	IP66 Standards
11	Compliances Standard	LM79,LM80

Sl.No	Technical Specification:	18Watt
1	Battery (Life PO4) Rechargeable	132.8V-30AH/BIS standard/MNRE approved
2	Efficiency	>93%
3	Battery Pack Safety	in built with PCM model
4	Solar Charger Controller Capacity	12V,5A
5	Low - Voltage indication	YES
6	Charging indication	YES
7	Charge Controller	IGBT Technology
8	Other Protections	A. Over-charge protection B.Deep-discharge protection C.Over current protection D.Short circuit protection E.Over voltage Protection
9	Temperature	10°C to + 60°C
10	Life cycle	>2000 cycle at 80% OF INITIAL CAPACITY
11	Compliances standard	IEC62133::2012,BIS
12	Control	Maximum power point tracking (MPPT)based charge controller with integrated LED driver
13	Dusk to dawn Operation	Provided
14	Motion Sensor	PIR Sensor
15	Motion Sensor Range	>10M
16	Light Mounting Height	5M above ground
17	Humidity Range	0 to 95%(noncondensing)

18	Warranty	5years
19	Mounting Structure & Accessories	<p>Pole:-6 meter galvanized iron inground or padestal mount pole as required for the system.7/-9 meter octagonal pole for mini-mast system</p> <p>Battery Box:- Battery Box made of MS CRCA sheet duly powder coated.</p> <p>PV Frame:- PV Pannel frame made of MS angle duly powder coated/painted.</p> <p>Nuts/Bolts &amp; Accessories:-Zinc plated nuts &amp; bolts along with foundation bolts as requird, luminaire mounting arms, battery box stand and other accessories as required.</p> <p>Wires:-Suitable wires for for internal connection of battery panel luminaire.</p>

#### SOLAR PANNEL

SLNo	Technical Specification:	18Watt
1	Solar Cell	Premium grade Mono Crystalline Silicon Type/Multi Crystalline PV Panel/MNRE approved
2	Solar Module Poder	>40W
3	Compliances Standard	IEC61215,ICE 61701,IEC61730
4	Life Cycle	>20years.
5	Battery Back up	24 hours.

Technical Specification:30W Solar Street Light

ALL-IN-ONE Solar Sreet Light is made in India with High Efficiency Multi Crystalline Solar PV Module,Lithium Ferro Phos[hate battery, High Efficiency LED with MPPT Solar charger Controller & Aluminum Extruded/PDC body,ALL IN ONE is specially designed with PIR Motion Sensor to control the Light ON/OFF during any activity near the light which increase the backup time and life of LIFePO4 battery

LED Luminaries with Fittings

Sl.No	Technical Specification:	30Watt
1	Luminaire Wattage	30Watt
2	Led Make	Havells /BAJAJ/PHILIPS/Any other reputed brand
3	LED VIEWING ANGLE	120°
4	Color Temperature	3000k-6500k
5	Luminous Efficiency	>130Lumen/watt
6	Lumen Output	>3900Lumen
7	Life Span	>50000hours
8	Driver	In Built DC-DC type
9	Body	Alluminum Extruded/ PDC Body
10	Protection	IP66 Standsrds
11	Compliances Stanard	LM79,LM80

Energy Storage System and controller

Sl.No	Technical Specification:	30Watt
1	Battery (Life PO4) Rechargeble	12.8V/30AH
2	Efficiency	>90%
3	Battery Pack Safely	in built with PCM model
4	Solar Charger Controller Capacity	12V,10A
5	Low - Voltage indication	YES
6	Charging indication	YES
7	Charge Controller	IGBT Technology
8	Other Protections	A. Over-charge protection B.Deep-discharge protection C.Over current protection D.Short circuit protection E.Over voltage Protection
9	Tempartature	40 C to + 60°C
10	Life cycle	>2000 cycle at 80% OF INITIAL CAPACITY
11	Compliances standard	IEC62133::2012,BIS
12	Control	Manimum power point tracking (MPPT)based change controler with integrated LED driver
13	Dusk to down Operation	Provided
14	Motion Senser	PIR Senser
15	Motion Senser Range	>9M
16	Light Mounting Height	5M above ground
17	Humidity Rnage	0 to 95%(noncondensing)

18	Warranty	5years
19	Mounting Structure & Accessories	<p>Pole:- 6 meter galvanized iron inground or pedestal mount pole as required for the system. 7/-9 meter octagonal pole for mini-mast system</p> <p>Battery Box:- Battery Box made of MS CRCA sheet duly powder coated.</p> <p>PV Frame:- PV Pannel frame made of MS angle duly powder coated/painted.</p> <p>Nuts/Bolts &amp; Accessories:- Zinc plated nuts &amp; bolts along with foundation bolts as required, luminaire mounting arms, battery box stand and other accessories as required.</p> <p>Wires:- Suitable wires for for internal connection of battery panel luminaire.</p>

### SOLAR PANNEL

Sl.No	Technical Specification:	30Watt
1	Solar Cell	Premium grade Poly Crystalline Sillicon Type/MNRE approved
2	Solar Module Poder	>100W
3	Compliances Standard	IEC61215,ICE 61701,IEC61730
4	Life Cycle	>20years.
5	Battery Back up	24 hours.

Technical Specification:40W Solar Street Light

ALL-IN-ONE Solar Street Light is made in India with High Efficiency Multi Crystalline Solar PV Module,Lithium Ferro Phosphate battery, High Efficiency LED with MPPT Solar charger Controller & Aluminum Extruded/PDC body,ALL IN ONE is specially designed with PIR Motion Sensor to control the Light ON/OFF during any activity near the light which increase the backup time and life of LiFePO4 battery

LED Luminaries with Fittings

Sl.No	Technical Specification:	40Watt
1	Luminaire Wattage	40Watt
2	Led Make	Havells /BAJAJ/PHILIPS/Any other reputed brand
3	LED VIEWING ANGLE	120°
4	Color Temperature	3000k-6500k
5	Luminous Efficiency	>130Lumen/watt
6	Lumen Output	>35200Lumen
7	Life Span	>50000hours
8	Driver	In Built DC-DC type
9	Body	Alluminum Extruded/ PDC Body
10	Protection	IP66 Standards
11	Compliances Standard	LM79,LM80

Energy Storage System and controller

Sl.No	Technical Specification:	40Watt
1	Battery (Life PO4) Rechargeble	12.8V/42AH/BIS STANDARD
2	Efficiency	>90%
3	Battery Pack Safely	in built with PCM model
4	Solar Charger Controller Capacity	12V,10A
5	Low - Voltage indication	YES
6	Charging indication	YES
7	Charge Controller	IGBT Technology
8	Other Protections	A. Over-charge protection B.Deep-discharge protection C.Over current protection D.Short circuit protection E.Over voltage Protection
9	Temperature	40 C to + 60°C
10	Life cycle	>2000 cycle at 80% OF INITIAL CAPACITY
11	Compliances standard	IEC62133::2012,BIS
12	Control	Manimum power point tracking (MPPT)based charge controller with integrated LED driver
13	Dusk to down Operation	Provided
14	Motion Sensor	PIR Sensor
15	Motion Sensor Range	>9M
16	Light Mounting Height	5M above ground
17	Humidity Range	0 to 95%(noncondensing)

18	Warranty	5years
19	Mounting Structure & Accessories	<p>Pole: -6 meter galvanized iron inground or pedestal mount pole as required for the system. 7/9 meter octagonal pole for mini-mast system</p> <p>Battery Box: - Battery Box made of MS CRCA sheet duly powder coated.</p> <p>PV Frame: - PV Pannel frame made of MS angle duly powder coated/painted.</p> <p>Nuts/Bolts &amp; Accessories: -Zinc plated nuts &amp; bolts along with foundation bolts as required, luminaire mounting arms, battery box stand and other accessories as required.</p> <p>Wires: -Suitable wires for for internal connection of battery panel luminaire.</p>

#### SOLAR PANNEL

Sl.No	Technical Specification:	40Watt
1	Solar Cell	Premium grade Poly Crystalline Silicon Type/MNRE approved
2	Solar Module Poder	>150W
3	Compliances Standard	IEC61215,ICE 61701,IEC61730
4	Life Cycle	>20years.
5	Battery Back up	24 hours.

TECHINICAL S PECIFICATION FOR FIXATION OF SOLAR LIGHT SYSTEM	
With clear 6 mtr HOB Tabular pole and Bracket	
Clear height	5 mtr above the ground level (For LED Solar light) & 1 mtr. (Requisite depth as required) below the ground level.
Thickness of pole	3mm
Bottom Diameter	100 mm
Top Diameter	75 mm
Size of base plate	250mm X 250mm
Thickness of base plate	12mm
Size of foundation bolt	250mm long 4 Nos of dia 25mm
Over land of bracket	900mm
Size of bracket pipe	5mm outer dia
Material	Gr. Fe 410/Gr. Fe500 IS 2062

- Welding and fixation of all as per IS 9595 coater thickness (Minimum) 85 Average IS 479 with zink coat 610 gm per Sq Mtr IS 4751
- Wiring and Accessories should be as per approved quality and good workmanship
- Protection against mechanical and electrical failure should be provided so the defect should be deducted during the warranty /guaranty period
- Cables and conductor terminal connection should be properly designated and certified by the technical committee
- Protection against electrical shock earthing and its earthing terminals should be done properly
- Testing of insulator resistant test,high voltage test should be clearly engraved/marked in the fitted solar light pole for future reference
- All examination should be in accordance with the specimen off IS10322-1985

## Declaration by the bidder

I/ WE \_\_\_\_\_ ( hereafter referred to a Vendor) being desirous for participating the quotation for selection of the vender for supply of fitting, fixing & Commissioning etc of solar electrification and having fully understand the nature of the work and having carefully noted all the terms and conditions, specifications etc as mentioned in the quotation call notice and tender documents do hereby declare that:-

1. The bidder is fully aware of all the requirements of the tender documents and agrees all provisions of the tender documents and accepts all risks, responsibilities and obligations directly or indirectly connected with the performance of the tender
2. the bidder is fully aware of all the relevant information for proper execution of the proposed work with respect to the proposed plan of work/ site, the local environment, approach road and connectivity etc. and as well as acquainted with actual and other prevailing working conditions, availability of required materials and labour etc. at site.
3. The bidder is capable of executing and completing the work as required in the tender and is financially solvent and sound to execute the work. The bidder is sufficient experienced and competent to perform the contracts to the satisfaction of Jeypore Municipality. The bidder gives the assurance to execute the tendered work as per specification terms and conditions of the tender on award of work.
4. The bidder has no collusion with other bidders, any employee of Jeypore Municipality
5. The bidder has not been influenced by any statement by Jeypore Municipality or any of its employees but only by the tender documents.
6. The bidder is familiar with all general and special laws acts ordinance, rules and regulations of the District, State and Central Govt that may affect the work, its performance or personnel employed therein.
7. The offer shall remain valid for acceptance for 1(one) year from the date of finalization of tender
8. The bidder has never been debarred from similar type of work by any departments
9. All the information and statements submitted with the tender schedule are true. In Case any information / statement is found to be false at letter stage my tender may out rightly be rejected and I shall be liable to pay all the losses incurred by District administration against the tendered work
10. The decision of the authority will be final and binding

I do here by accept the decision of the tender inviting authority unconditionally

Signature of bidder with seal

## CHECK LIST FOR SUBMISSION OF DOCUMENTS

### Documents to be enclosed:

1. Copy of valid Electrical & MV License, if applicable
2. Copy of audited balance sheet and profit/ loss account for the last three years clearly indicating the turnover of the Agency
3. Certificate from Authorized Agent / copy of work order as proof of experience in LED based Solar Street Light System during last three years.
4. Test certificate of SPV module from appropriate authority, if applicable
5. Xerox copy of Income Tax/ PAN CARD of the firm with last 3 years ITReturn
6. Original Demand draft toward cost of tender paper
7. List of Local office and service centre available within Koraput District
8. Willingness to open local office with proposed location in Koraput before commencement of work, if not available.
9. Undertaking to unconditional acceptance of all terms and conditions of the bid document
10. Power of attorney to sign the agreement on behalf of bidders and partnership deed articles, if any
11. Technical Bid
12. Financial Bid
13. Organization profile.
14. Registration Certificate of the Firm /Individual / Joint Venture, if applicable
15. Declaration by the bidder rupees Rs. 100/- non-judicial stamp as per given format
16. Technical specification of the product offered
17. Authorization letter of OEM to participate in the EoI
18. Certificate of LED based Solar Street Light System.
19. Make of the Solar LED light NABL or IECQ laboratory
20. Test certificate of Solar Street Light (SSL) by MNRE or its authorized centre as per MNRE Specification, which must be valid during the execution year of this work
21. Other documents, if any, as the bidder wants to enclose

**Signature of bidder with seal**

### SCOPE OF WORK

1. The board scope of the work would be designing, supply, installation, commissioning and maintenance for a period of 5 years from the date of handing over the specified solar street light system. The work will be executed at identified slum areas of Jeypore Municipality.
2. The firm or supplier shall have to execute the work as per technical and conditions specified in the tender terms document/ work order and approved price.
3. The bidders are advised to make an assessment and collect all necessary information regarding type of approach to the slum area and mode of transportation to the execution site.
4. The firm or supplier shall maintain adequate inventory and safe storage of the equipments before erection of Street light .
5. Requisite height cement pedestal shall be constructed by the firm or supplier at the base before erection of solar light system. In order to prevent the rusting and the required coat of paint should be made .
6. The Jeypore Municipality will provide the list location along with work order and point of installation of the solar street light.
7. A team of officials/Committee authorized by the Executive Officer , Jeypore Municipality shall inspect and furnish satisfactory functioning of the street light after its installation, based on which the payment shall be released to the supplier .The 90% payment of agreement value or cost the equipment or work order will be released on satisfactory functioning and 10% will be released periodically only during the warranty period of 5 years. The format for satisfactory functioning of Solar street light report is enclosed at Annexure-VI.
8. Warranty certificate to be furnished along with the commissioning report to the Municipality.
9. The bidder shall take all responsibility to supply, install and commissioning of the solar street light system within the schedule time mentioned in the work order/agreement. If the contractor fails to adhere to the schedule, it will be liable for penalty. The penalty will be levied equivalent to 1% of delivery price of the delayed good or unperformed services for each week of delay up to a maximum deduction of 10% of the contract price. On exceeding the maximum limit of delay, the authority reserves the right to terminate the contract and forfeit the security deposit without prejudice.
10. No price escalation due to any reason shall be considered by the authority during the validity period of the contract agreement.

to submit all details of the installed system like system details installation reports in a prescribed format. Photography evidence on proof of delivery is essential and to be submitted at the time to claim..

15. Permission of south co for installation of solar Light in new pole or existing pole shall be obtained by the tenderer on his own responsibility as per the prevailing norms.

16. The date of commissioning including the year should be clearly mentioned / engraved / mark in the fitted solar light electrification pole for future reference.

### General Terms and Conditions:

1. The bid documents to be submitted in sealed cover and shall contain a copy of tender document as a token of acceptance of terms and conditions. Attested copy of valid registration certificate, PAN card & valid GST registration.
2. The bidder who desires to participate in the tender process should have executed similar nature of works at least of Rs.1,00,00,000/- (Rupees One Crore) or more in anyone financial year of preceding 4 (Four) financial years failing which the bid will not be taken into consideration. Work orders/indent order in support of experience shall be submitted in the bid paper.
3. The sealed cover shall carry two number of sealed envelope inside.
  - a. One cover for technical bid containing all the documents, related Bank drafts, technical bid paper, etc., clearly superscript as TECHNICAL BID on the envelope.
  - b. One cover for financial bid containing only financial bid enclosed in the sealed cover of FINANCIAL BID on the envelope.
4. The technical bid will be evaluated first. The financial bid will be opened and evaluated of successfully qualified technical bidders only. The financial evaluation will be done on L1 basis for each item of work. The work order will be awarded to the most responsive Li bidder. However, the authority reserves right to accept or reject the L1 rate offered by the bidder.
5. The offer shall be valid for minimum of 1 (one) year from the date of finalization of tender.
6. The bidder shall sign an agreement with the Jeypore Municipality
7. The bidder shall bear insurance, force measure damages, inventory storage facility, replacing the defect materials, service center setup, etc. at his own cost.
8. Any dispute arises shall be settled in the court of law within the jurisdiction of Koraput District.
9. The successful bidder shall deposit additional 2% of the agreement value as performance security during execution of agreement.
10. Limitation of liability- the authority/Govt. will in no case be responsible for any accidental fatal or non-fatal, caused by any worker or outsider in course of transportation and execution of work. The cost of experience including treatment or compensation will entirely be borne by the bidder.

## ANNEXURE-1

## DESCRIPTION OF ITEM ALONG WITH TECHNICAL SPECIFICAN

Sl.No.	Description of Item
1	Supply of Integrated Solar street lighting (all in one) System of 18/30/40 Watt light with approved branded Company having MNRI/other requisite certification and Lithium Ferro Phosphate battery & High efficiency solar charge controller, automatic dusk to dawn separation system, 5 year product warranty with free replacement including design, installation Commissioning and maintenance for a period of 5 years at different slum area of Jeypore municipality is to be completed as per direction of Engineer-In-Charge.
	a) <b>With Pole:-G.I.</b> Tubular Pole of 7.00m height (4"X3"X2.5") pole with base Plate including foundation fitted with nuts and bolts and anchor bolts up to ground level and concrete coupling above GL with all fitting clamps complete as per the direction of the Engineer In Charge
	b) <b>Without Pole:-</b> Pole with all fitting clamps complete as per the direction of the Engineer In Charge
	c) <b>Individual</b> specification of respective 20/ 30/ 40 Watt may be referred for the purpose.
	d) <b>Depth of Concrete work</b>

## Note:-

- The price should be quoted per unit only inclusive of all incidental cost and taxes ,Transportation cost ,Labor Cost ,Warranty and Office Set up
- GST Should be quoted separately as application ( exclusive)

## TECHNICAL BID

## GENERAL PARTICULARS TO BE SUBMITTED BY THE TENDERER

1	Name of Bidder /Firm:	
2	Postal Address	
3	E-mail address for communication	
4	Telephone, Fax No	
5	Name, designation & Contact Number of the representative of the tender to whom all reference shall be made	
6	Nature of the Firm (Individual / Partnership / Pvt. / Public Ltd / Public Sector) (Please attach attested copy of registration):	
7	Amount and particulars of the cost of tender paper deposited (enclose DD/ Original MR)	
8	Average Annual turnover of Rs.1,00,00,000.00 in the last three years (enclose balance sheet for last 3(Thre e) years) and also obtain a certificate from CA regarding average annual turnover of last 3 years	
9	GST Registration No. (copy to be enclosed)	
10	PAN CARD No.(Enclosed Xerox copy) . With 3 years IT Return filed Copy :	
11	Undertaking on the firm being not blacklisted / disbarred by any institution on any ground	

Signature of the Bidder with Seal

## Annexure-III

Financial Bid			
Description of Item	Unit	Integrated All in one type	
		In figure	In words
Supply of solar LED based lighting system with approved branded company having requisite certification /MNRI approved of Integrated solar lighting System as per technical specification			
18 watt without pole	1Set		
30 watt without Pole	1Set		
40 watt without pole	1Set		
18 watt with pole	1Set		
30 watt with Pole	1Set		
40 watt with pole	1Set		

## Note:-

- The price should be quoted per unit only inclusive of all incidental Cost & Truces, Transportation cost ,labour Cost ,Warranty ,Office Set up etc
- GST Should be quoted separately as application