

**EXPRESSION OF INTEREST (EOI)
FOR
“INSTALLATION OF SOLAR ROOF TOP SYSTEM AT
DIFFERENT AGRICULTURE OFFICE BUILDINGS”
PLACED BY
EXECUTIVE ENGINEER (AGRIL.), MAYURBHANJ
DIVISION, BARIPADA**

EOI No.	01 of 2023-24
Issue Date	Dt.23.08.2023
Last Date of Submission	Dt.31.08.2023

Model estimate cost put to project- Rs. 5Lakhs and Rs. 10Lakhs

Last date & time of submission of EOI Documents at O/oExecutive Engineer (Agril.), Mayurbhanj, Baripada is on or before Dt.31.08.2023 up to 1.00 P.M. The EOI document can be downloaded from <https://mayurbhanj.nic.inwebsite>.

EOI documents to be submitted to:

Executive Engineer (Agril.), Mayurbhanj, Baripada, near Ashirbad chhaka, Station Bazar, 757001

EXPRESSION OF INTEREST (EOI)

Executive Engineer (Agril.), Mayurbhanj Division, Baripada invites Expression of Interest (EOI) from specialized agencies/suppliers/manufacturers having experience in supply, Installation, planning, and maintenance of Standardised **Solar roof top system in different agriculture office buildings** to quote the rate of its components for Model A and Model B for subsequent E-tender process and award of work.

The Minimum eligibility criteria are for this EOI defined in clauses below:

1. The applicant should be a well-established specialized agency having experience in Design, manufacture, Supply, and Installation of **Solar roof top system** works in Govt. agriculture offices. He must be having a support office in Mayurbhanj before the execution of Agreement.
2. The applicant must have at least 03 years operational experience for installation.
3. The applicant / potential bidder must not be a consortium of firms.
4. The applicant / potential bidder must be preferably accredited / empanelled with by MNRE / OREDA.
5. The applicant / bidder must have valid manufacturing license issued by competent authority for manufacturing the product it is applying for empanelment, i) Copy of PAN Card., ii) Copy of SSI Registration certificate / Registration issued by the Director of Industries/MSME/Certificate of incorporation under Companies Registration Act., iii) Copy of GST Registration, etc.
6. Average annual turnover for the last three financial years should be at least Rs30 Lakhs.
7. It is mandatory that the applicant should have an established office/service Centre in Mayurbhanj for a period of minimum 3 years for providing 24 hours x 7 days post implementation support.
8. Complete address, contacts, and Documentary evidence for the same needs to be provided. The contact details, especially the telephone numbers, of service focal point(s) should remain unchanged during the period of agency/supplier/manufacturer/vendor's relation with this office.
9. The bidder hasn't been blacklisted by any Central/State Government institution and there has been no pending litigation with any government department on account of similar services. (To be furnished under Notarized Affidavit)
10. The bidder should not be under a declaration of ineligibility for corrupt and fraudulent practices issued by Government of India or any State Governments in the country of India. (To be furnished with Notarized Affidavit)

*N.B.: Agencies not meeting the minimum eligibility criteria shall be summarily rejected. Executive Engineer (Agril.) Mayurbhanj may ask any other document (not mentioned in this EOI document) from the parties as and when required, for evaluation of credentials of the bidders. **Authority reserves the right to reject/accept any or all of the EOI without assigning any reasons thereof.***

Location of work: Government Agriculture office buildings of different blocks of Mayurbhanj district.

Interested bidders are requested to quote their rates for the following solar roof top system components.

A. First model as bid is being sought for Rs 5.00 lakhs (including GST)

Sl. No.	Items/components	Specification	Qty	Unit	Unit rate
1	Inverter	A) Smart Solar Optimization: Gives priority to solar in both backup & charging mode of operation. B) Maximum Power Point Tracking: MPPTs to extract up to 30% more power from the panels, minimizing impact of shading and increasing efficiency. C) 5 KVA Rated AC power - 230V, 18A, Single phase. D) Max Supported Panel Power - 5000 Wp E) BIS Certified: BIS certified as per IS/IEC standards	1	NOS	
2	Battery	A) 200 AH Rated Capacity @ C10, 12V. B) Warranty -36 Months or more C) Tubular plant technology	4	NOS	
3	Solar Panel	A) Polycrystalline Cells type Panel. B) Capacity – 335W, 24V, Number Of Cells-72 C) Voltage: Voltage at Max Power (Vmp) – 38.03Vd. D) Open Circuit Voltage (Voc) – 45.53Ve. E) Current: Current at Max Power (Imp) – 8.68A. F) Maximum System Voltage-1000V G) Maximum Series Fuse Rating-20A	12	NOS	
4	MMS Structure	A) Mounting Structure (Hot dip or Cold dip galvanized or GS) for holding all the panels B) Structure big leg length - 4ft C) Structure Small leg length-2.5ft. D) Rafter length-10ft. E) Perlin length-20ft	150	kg	
5	Cement Concrete (1:2:4) with 12 mm size broken hard granite chips for R.C.C. works including hoisting and laying etc. complete		0.176	cum	

6	Alternating Current Distribution Box. (ACDB)	a)ACDB for Ac side isolation and protection. b)ACDB includes necessary surge protection device (SPD) and MCB to Protect the solar inverter	1	NOS	
7	Array Junction Boxes/ Direct Current Distribution box (AJB/DCDB)	A) AJB/DCDB for DC side isolation and protection. B) AJB/DCDB controls the DC power solar panel and with having necessary surge protection device (SPD) and necessary MCB	1	NOS	
8	Lightning Arrestor With Its Stand	While the external LPS helps protect the rooftop solar plant from direct lightning strikes	1	NOS	
9	Earthing Kit		2	NOS	
10	Battery Stand		1	NOS	
11	Installation (Per Watt Rs 5.80)		4020	Per Watt	
12	Panel to Panel-4 Sq Mm DC Cable	Cable laying of proper specifications(Make Polycab)	12	Mtr	
13	DCDB to Inverter- 6 Sq Mm DC Cable	Cable laying of proper specifications(Make Polycab)	10	Mtr	
14	Battery to Battery-25 Sqmm AC Cable		3	Mtr	
15	Inverter to Load - 4Sqmm AC Cable		8	Mtr	
16	MC4 Connector		8	NOS	
17	Mid Clamp		6	NOS	
18	End Clamp		6	NOS	
19	Conduit Pipe		6	NOS	

B. Second Model as bid is being sought for Rs. 10.00 lakhs (including GST)

Sl. No.	Items/components	Specification	Qty	Unit	Unit rate
1	Inverter	A) Smart Solar Optimization: Gives priority to solar in both backup & charging mode of operation. B) Maximum Power Point Tracking: MPPTs to extract up to 30% more power from the panels, minimizing impact of shading and increasing efficiency. C)10 KVA Rated AC power - 230V, 35A, Single phase. D) Max Supported Panel Power - 10000 Wp E) BIS Certified: BIS certified as per IS/IEC standards	1	NOS	

2	Battery	A) 200 AH Rated Capacity @ C10, 12V. B) Warranty -36 Months or more C) Tubular plant technology	10	NOS	
3	Solar Panel	A) Polycrystalline Cells type Panel. B) Capacity – 335W, 24V, Number Of Cells-72 C) Voltage: Voltage at Max Power (Vmp) – 38.03Vd. D) Open Circuit Voltage (Voc) – 45.53Ve. E) Current: Current at Max Power (Imp) – 8.68A. F) Maximum System Voltage-1000V G) Maximum Series Fuse Rating-20A	24	NOS	
4	MMS Structure	A) Mounting Structure (Hot dip or Cold dip galvanized or GS) for holding all the panels B) Structure big leg length - 4ft C) Structure Small leg length-2.5ft. D) Rafter length-10ft. E) Perlin length-20ft	400	kg	
5	Cement Concrete (1:2:4) with 12 mm size broken hard granite chips for R.C.C. works including hoisting and laying etc. complete		0.176	cum	
6	Alternating Current Distribution Box. (ACDB)	a)ACDB for AC side isolation and protection. b)ACDB includes necessary surge protection device (SPD) and MCB to Protect the solar inverter.	1	NOS	
7	Array Junction Boxes/ Direct Current Distribution box (AJB/DCDB)	A) AJB/DCDB for DC side isolation and protection. B) AJB/DCDB controls the DC power solar panel and with having necessary surge protection device (SPD) and necessary MCB	1	NOS	
8	Lightning Arrestor With Its Stand	While the external LPS helps protect the rooftop solar plant from direct lightning strikes	1	NOS	
9	Earthing Kit		3	NOS	
10	Battery Stand	Galvanised iron	1	NOS	
11	Installation (Per Watt Rs 5.80)		10050	Per Watt	
12	Panel to Panel-4 Sq Mm DC Cable	Cable laying of proper specifications(Make Polycab)	12	Mtr	
13	DCDB to Inverter-10Sq Mm DC Cable	Cable laying of proper specifications(Make Polycab)	15	Mtr	

14	Battery to Battery-25 Sqmm AC Cable		6	Mtr	
15	Inverter to Load & Mains to inverter - 10Sqmm AC Cable		10	Mtr	
16	MC4 Connector		20	NOS	
17	Mid Clamp		6	NOS	
18	End Clamp		6	NOS	
19	Conduit Pipe		15	NOS	

Warranty: 25-year limited warranty on solar panel and 1-year on battery and other accessories.

Kindly note that the views presented above is the proposed plan and basic concept of Solar plant is subject to modifications for improvements. However, decision of Executive Engineer(Agril.) Mayurbhanj Division, Baripada will be final in this respect.

Scope of complete work: In general, the entire work shall consist of the following stages:

Stage-I (EOI by Vendors to quote the rate):

- Expression of Interest (EOI) to quote the rates of roof top solar system installation from specialized agency meeting minimum Eligibility criteria are defined in clauses 1 to 10.
- Technical evaluation committee appointed by the Executive Engineer (Agril.) Mayurbhanj Division, Baripada shall shortlist the rates quoted by bidders/agencies based on minimum eligibility criteria and terms and conditions specified in the EOI. The lowest quoted rate will be finalized to put into E-Tender.
- The interested agencies may visit the actual site for getting necessary details.

Stage-2 (E-Tender of works):

- E-Tender shall be float on government portal - *tendersodisha.gov.in* to receive bids for roof top solar system installation from specialized agency meeting minimum Eligibility criteria are defined in clauses 1 to 10.
- Technical evaluation committee appointed by the Executive Engineer (Agril.) Mayurbhanj Division, Baripada shall shortlist the agencies based on minimum eligibility criteria and terms and conditions specified in the EOI.

Stage-3 (Evaluation of tenders):

- Bids to be submitted along with EMD/ tender paper cost and all the required documents and proof as per the requirements indicated in the tender documents.
- Period of completion / Time limit for completion of work shall be 60 days from issue of work order.
- Bidders in tender process cannot quote rate in percentage rate more than 14.99% less as mandated in OPWD code.
- Any cleaning or shifting of building material in the place of work will be carried out by the bidder/agency without additional cost.

Submission of EOI Documents

The EOI submitted by the agency shall comprise the following:

- a) Information in specified format and any other information required to be completed and submitted by Bidders in accordance with these instructions.
- b) Information as per Minimum Eligibility criteria (clause-1 to 10) should be completed and provided along with necessary documents.

c) The EOI in prescribed form duly filled up with date and signature and seal (in all pages) shall be submitted in a sealed cover. The sealed cover shall be Super-scribed with "ROOF TOP SOLAR PLANT SYSTEM AT GOVERNMENT AGRICULTURE BUILDINGS" must be dropped in the tender box at office of Executive Engineer (Agril), Mayurbhanj, Baripada on or before Dt.31.08.2023 up to 1:00 pm. EOI document will be opened on the same day i.e., on Dt.31.08.2023 at 3:30 P.M, in the presence of the bidders or their authorized representatives who wish to attend. O/o Executive Engineer (Agril), Mayurbhanj, Baripada shall not be responsible for any postal delay.

Clarification & Query:

O/o Executive Engineer (Agril), Mayurbhanj, Baripada

Contact Person: Er. Tarani Kanta Das, AEE (Agril.), Rairangpur Sub-division.

Contact Details: 9438392979

LETTER OF TRANSMITTAL

The applicant should submit the letter of transmittal attached with EOI document.

LETTER OF TRANSMITTAL

From

.....

.....

To,

Executive Engineer (Agril.) Mayurbhanj, Baripada, 757001

Sub: EXPRESSION OF INTEREST (EOI) for "INSTALATION OF ROOF TOP SOLAR PLANT AT DIFFERENT GOVERNMENT OFFICE BUILDINGS"

Sir,

Having examined the details given in press notification and the EOI, I hereby submit the EOI document and other relevant information.

1. I hereby certify that all the statements made, and information supplied in the enclosed forms and accompanying statements are true and correct.
2. I have furnished all information and details necessary for eligibility criteria and have no further pertinent information to supply.
3. I submit the following certificates in support of our suitability, technical knowhow & capability for having successfully completed the following works.

Name of Work:	Certificate from
---------------	------------------

- | | |
|----|----|
| 1. | 1. |
| 2. | 2. |
| 3. | |

Enclosures:

Date of submission:

Signature of applicant with seal