

**EMU-WSHOP-KPA-ELECTRICAL/EASTERN RLY  
TENDER DOCUMENT**

Tender No: KPA-EG-OT-13-23-24

Closing Date/Time: 27/04/2024 14:00

DY.CEE/G/KPA acting for and on behalf of The President of India invites E-Tenders against Tender No **KPA-EG-OT-13-23-24** Closing Date/Time 27/04/2024 14:00 Hrs. Bidders will be able to submit their original/revised bids upto closing date and time only. Manual offers are not allowed against this tender, and any such manual offer received shall be ignored.

**1. NIT HEADER**

<b>Name of Work</b>	Provision of 3.0 MWp on-grid (without battery backup) Solar Power Plants in different places at KPA Workshop.		
<b>Bidding type</b>	Normal Tender		
<b>Tender Type</b>	Open	<b>Bidding System</b>	Two Packet System
<b>Tender Closing Date Time</b>	27/04/2024 14:00	<b>Date Time Of Uploading Tender</b>	04/04/2024 19:08
<b>Pre-Bid Conference Required</b>	No	<b>Pre-Bid Conference Date Time</b>	Not Applicable
<b>Advertised Value</b>	123107025.80	<b>Tendering Section</b>	DYCEE/G
<b>Bidding Style</b>	Single Rate for Tender	<b>Bidding Unit</b>	Above/Below/Par
<b>Earnest Money (Rs.)</b>	765500.00	<b>Validity of Offer ( Days)</b>	60
<b>Tender Doc. Cost (Rs.)</b>	0.00	<b>Period of Completion</b>	12 Months
<b>Contract Type</b>	Works	<b>Contract Category</b>	Expenditure
<b>Bidding Start Date</b>	13/04/2024	<b>Are Joint Venture (JV) firms allowed to bid</b>	Yes
<b>Ranking Order For Bids</b>	Lowest to Highest	<b>Expenditure Type</b>	Capital (Works)

**2. SCHEDULE**

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule A-Design, drawing, supply, installation, testing and commissioning of 3.0 MWp Ground mounted Solar Power Plant with all the Electrical and associated equipments including necessary civil works at KPA workshop (Project Location: Officer's Colony Area, Eastern Railway, Kanchrapara. Total project Area: 87770 Sq.Mtrs., Direction: South-East).</b>							123107025.80	
1	Please see Item Breakup for details.				103009465.80	AT Par	103009465.80	
	<b>Description:-</b> Supply of following plants and machineries required for 3.0 MWp capacity Ground mounted solar power plant including drawings (03 copies in A0 paper) and all electrical and associated equipments including civil foundation works as per mentioned scope of work and detailed technical specification.							
2	Please see Item Breakup for details.				20097560.00	AT Par	20097560.00	
	<b>Description:-</b> Installation, testing & commissioning of all plants and machineries stated in Sl. No. 1 for 3.0 MWp capacity Ground mounted solar Power Plant with all electrical and associated equipments including civil foundation works as per mentioned scope of work and detailed technical specification.							

**3. ITEM BREAKUP**

<b>Schedule</b>	Schedule A-Design, drawing, supply, installation, testing and commissioning of 3.0 MWp Ground mounted Solar Power Plant with all the Electrical and associated equipments including necessary civil works at KPA workshop (Project Location: Officer's Colony Area, Eastern Railway, Kanchrapara. Total project Area: 87770 Sq.Mtrs., Direction: South-East).					
<b>Item- 1</b>	Supply of following plants and machineries required for 3.0 MWp capacity Ground mounted solar power plant including drawings (03 copies in A0 paper) and all electrical and associated equipments including civil foundation works as per mentioned scope of work and detailed technical specification.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	M10 mono-perc solar PV modules of 545 Wp capacity.	Numbers	5505.00	11584.60	63773223.00
2	2	Hot dip galvanized Module mounting structures (MMS) with galvanization thickness of 80 micron or above.	MT	155.00	110920.00	17192600.00
3	3	Solar Inverter of 120 kW capacity with integrated MPPT controller	Numbers	25.00	431200.00	10780000.00

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4	4	DC combiner box of 60 kW capacity	Numbers	50.00	23269.60	1163480.00
5	5	AC cubicle distribution box (5 in 1 out) of 600 kW capacity	Numbers	5.00	292640.00	1463200.00
6	6	DC wires/cables of 6 sq.mm	Metre	20780.00	46.02	956295.60
7	7	3.5 (three and half) core shielded non-armour aluminium flexible cable of 70 sq.mm	Metre	200.00	1852.60	370520.00
8	8	3.5 (three and half) core shielded armour aluminium flexible cable of 240 sq.mm	Metre	200.00	3941.20	788240.00
9	9	Dual ratio Inverter duty transformer (IDT) of 3.15 MVA, 415 V / 6.6 - 11 kV, 50 Hz, oil immersed, 3 phase, copper wound with all accessories and safety devices.	Numbers	1.00	2784800.00	2784800.00
10	10	Sub-station turnkey package including insulators, switchgears, LA and transmission poles suitable for both 6.6kV and 11kV	Job	1.00	2289200.00	2289200.00
11	11	Maintenance free Chemical earthing	Numbers	40.00	10502.00	420080.00
12	12	ESE type lightning arrestors having protection radius of at least 100 mtrs.	Numbers	12.00	18490.60	221887.20
13	13	Control room porta cabin of size 8 ft x 10 ft	Numbers	1.00	197060.00	197060.00
14	14	Weather monitoring station with sensors	Numbers	1.00	207680.00	207680.00
15	15	Reverse power relay	Numbers	5.00	80240.00	401200.00
					<b>Total</b>	<b>103009465.80</b>
<b>Item- 2</b>	Installation, testing & commissioning of all plants and machineries stated in Sl. No. 1 for 3.0 MWp capacity Ground mounted solar Power Plant with all electrical and associated equipments including civil foundation works as per mentioned scope of work and detailed technical specification.					
<b>S No.</b>	<b>Item No</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amount</b>
1	1	Site survey, soil testing, land preparation including removal of scrubs, plants and other infiltrations of entire project area of 3.0 MWp ground based solar power plant.	Job	1.00	342000.00	342000.00
2	2	Civil work for MMS foundation & sub-station with M20 grade PCC including area securing and periphery securing with concrete poles and barbed wire fencing of entire project area of 3.0 MWp ground based solar power plant.	Job	1.00	12675560.00	12675560.00
3	3	Installation of solar plant and sub-station of 3.0 MWp ground based solar power plant.	KWp	3000.00	2360.00	7080000.00
					<b>Total</b>	<b>20097560.00</b>

**4. ELIGIBILITY CONDITIONS**

**Important :** All documents uploaded and remarks / confirmation entered by the bidders against any eligibility condition shall be opened as part of technical bid only

**Special Technical Criteria**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading

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1	<p>Technical Eligibility Criteria: (a)The tenderer must have successfully completed or substantially completed any one of the following categories of work(s) during last 07 (seven) years, ending last day of month previous to the one in which tender is invited: GCC April 2022 (i)Three similar works each costing not less than the amount equal to 30% of advertised value of the tender, or (ii)Two similar works each costing not less than the amount equal to 40% of advertised value of the tender, or (iii)One similar work costing not less than the amount equal to 60% of advertised value of the tender. (b)(1)In case of tenders for composite works (e.g. works involving more than one distinct component, such as Civil Engineering works, S&amp;T works, Electrical works, OHE works etc. and in the case of major bridges - substructure, superstructure etc.), tenderer must have successfully completed or substantially completed any one of the following categories of work(s) during last 07 (seven) years, ending last day of month previous to the one in which tender is invited: (i)Three similar works each costing not less than the amount equal to 30% of advertised value of each component of tender, or (ii)Two similar works each costing not less than the amount equal to 40% of advertised value of each component of tender, or (iii)One similar work each costing not less than the amount equal to 60% of advertised value of each component of tender. Note for (b)(1) Separate completed works of minimum required values shall also be considered for fulfillment of technical eligibility criteria for different components. (b)(2)In such cases, what constitutes a component in a composite work shall be clearly pre-defined with estimated tender cost of it, as part of the tender documents without any ambiguity. (b)(3)To evaluate the technical eligibility of tenderer, only components of work as stipulated in tender documents for evaluation of technical eligibility, shall be considered. The scope of work covered in other remaining components shall be either executed by tenderer himself if he has work experience as mentioned in clause 7 of the Standard General Conditions of Contractor through subcontractor fulfilling the requirements as per clause 7 of the Standard General Conditions of Contract or jointly i.e., partly himself and remaining through subcontractor, with prior approval of Chief Engineer in writing. However, if required in tender documents by way of Special Conditions, a formal agreement duly notarized, legally enforceable in the court of law, shall be executed by the main contractor with the subcontractor for the component(s) of work proposed to be executed by the subcontractor(s), and shall be submitted along with the offer for considering subletting of that scope of work towards fulfillment of technical eligibility. Such subcontractor must fulfill technical eligibility criteria as follows: The subcontractor shall have successfully completed at least one work similar to work proposed for subcontract, costing not less than 35% value of work to be subletted, in last 5 years, ending last day of month previous to the one in which tender is invited through a works contract.</p>	No	No	Allowed (Mandatory)
1.1	<p>Definition of Similar nature of work:- "The firm should have carried out the work of Design, Supply, Installation, Connection, Testing and Commissioning of Rooftop/Shed Top/Water Surface/Vacant Land based On-Grid/Off-Grid/Hybrid Solar System with associated work". Total contract value should be furnished along with the tender and should be available at the time of tender opening. Tenders not accompanied by documentary evidence in support of eligibility criteria will be summarily rejected. No post tender communication, in any form will be made or entertained, after opening of tender, in its regard. Railways may however call for the original of the credential for verification or any clarifications/confirmation on the content of the document submitted.</p>	No	No	Not Allowed

**Special Financial Criteria**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	<p>Financial Eligibility Criteria:The tenderer must have minimum average annual contractual turnover of V/N or 'V' whichever is less; where V= Advertised value of the tender in crores of Rupees N= Number of years prescribed for completion of work for which bids have been invited. The average annual contractual turnover shall be calculated as an average of "total contractual payments" in the previous three financial years, as per the audited balance sheet. However, in case balance sheet of the previous year is yet to be prepared/ audited, the audited balance sheet of the fourth previous year shall be considered for calculating average annual contractual turnover. The tenderers shall submit requisite information as per Annexure-VIB, along with copies of Audited Balance Sheets duly certified by the Chartered Accountant/Certificate from Chartered Accountant duly supported by Audited Balance Sheet.</p>	No	No	Allowed (Mandatory)

**Bidders shall confirm and certify on the behalf of the tenderer including its constituents as under:**

S.No.	Description
1	I/we the tenderer (s) am/are signing this document after carefully reading the contents.
2	I/We the tenderer(s) also accept all the conditions of the tender and have signed all the pages in confirmation thereof.

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3	I/we hereby declare that I/we have downloaded the tender documents from Indian Railway website www.ireps.gov.in . I/we have verified the content of the document from the website and there is no addition, no deletion or no alteration to the content of the tender document. In case of any discrepancy noticed at any stage i.e. evaluation of tenders, execution of work or final payment of the contract, the master copy available with the railway Administration shall be final and binding upon me/us.
4	I/we declare and certify that I/we have not made any misleading or false representation in the forms, statements and attachments in proof of the qualification requirements.
5	I/We also understand that my/our offer will be evaluated based on the documents/credentials submitted along with the offer and same shall be binding upon me/us.
6	I/We declare that the information and documents submitted along with the tender by me/us are correct and I/we are fully responsible for the correctness of the information and documents, submitted by us.
7	I/we certify that I/we the tenderer(s) is/are not blacklisted or debarred by Railways or any other Ministry / Department of Govt. of India from participation in tender on the date of submission of bids, either in individual capacity or as a HUF/ member of the partnership firm/LLP/JV/Society/Trust.
8	I/we understand that if the contents of the certificate submitted by us are found to be forged/false at any time during process for evaluation of tenders, it shall lead to forfeiture of the Bid Security and may also lead to any other action provided in the contract including banning of business for a period of upto two year. Further, I/we and all my/our constituents understand that my/our offer shall be summarily rejected.
9	I/we also understand that if the contents of the certificate submitted by us are found to be false/forged at any time after the award of the contract, it will lead to termination of the contract, along with forfeiture of Bid Security/Security Deposit and Performance guarantee and may also lead to any other action provided in the contract including banning of business for a period of upto two year.
10	I/We have read the clause regarding restriction on procurement from a bidder of a country which shares a land border with India and certify that I am/We are not from such a country or, if from such a country, have been registered with the competent Authority. I/We hereby certify that I/we fulfil all the requirements in this regard and am/are eligible to be considered (evidence of valid registration by the competent authority is enclosed)

**Partnership firm/Joint Venture (JV) / Hindu Undivided Family (HUF) / Limited Liability Partnership (LLP) etc.**

S.No.	Description
1	<b>Partnership firm/Joint Venture (JV) / Hindu Undivided Family (HUF) / Limited Liability Partnership (LLP) etc.</b> Please submit a certificate in the prescribed format (please download the format from the link given below). Non submission of the certificate, or submission of certificate either not properly filled in, or in a format other than the prescribed format shall lead to summary rejection of your offer. ( <a href="#">Click here</a> to download the Format of Self Certification)

**5. COMPLIANCE**

**Important :** All documents uploaded and remarks / confirmation entered by the bidders against any compliance condition shall be opened as part of technical bid only.

**Commercial-Compliance**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Please enter the percentage of local content in the material being offered. Please enter 0 for fully imported items, and 100 for fully indigenous items. The definition and calculation of local content shall be in accordance with the Make in India policy as incorporated in the tender conditions.	No	Yes	Allowed (Optional)

**6. Documents attached with tender**

S.No.	Document Name	Document Description
1	SCHEDULEOFWORK.pdf	SCHEDULE OF WORK
2	SCOPEOFWORK.pdf	SCOPE OF WORK
3	CHECKLIST.pdf	CHECK LIST
4	ANNEXURE-2.pdf	Annexure IV VI VIA VIB VII VIII
5	GCC-2022.pdf	GCC 2022
6	AdvanceCorrectionSlipNo.1forGCC2022.pdf	CORRECTION SLIP 1
7	AdvanceCorrectionSlipNo.2forGCC2022_1.pdf	CORRECTION SLIP 2
8	TenderNo.KPA-EG-OT-13-23-24..pdf	TENDER DOCUMENTS
9	Annexure-IaIbIIIIIVVA.pdf	ANNEXURE Ia Ib II III V VA
10	correctionslip5.pdf	Correction Slip 5

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11	correctionslip3.pdf	Correction Slip 3
12	correctionslip4.pdf	Correction Slip 4
13	correctionslip6.pdf	Correction Slip 6

This tender complies with Public Procurement Policy (Make in India) Order 2017, dated 15/06/2017, issued by Department of Industrial Promotion and Policy, Ministry of Commerce, circulated vide Railway Board letter no. 2015/RS(G)/779/5 dated 03/08/2017 and 27/12/2017 and amendments/ revisions thereof.

As a Tender Inviting Authority, the undersigned has ensured that the issue of this tender does not violate provisions of GFR regarding procurement through GeM.

**Signed By:** GOPINATH HALDER

**Designation :** Dy.GEEW