

**KATIHAR DIVISION-ELECTRICAL/N F RLY
TENDER DOCUMENT**

Tender No: 18_2024

Closing Date/Time: 09/12/2024 15:00

DRM-Electrical -GEN acting for and on behalf of The President of India invites E-Tenders against Tender No **18 2024** Closing Date/Time 09/12/2024 15:00 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

Name of Work	Installation of "Grid Connected" (On Grid) Solar Photo Voltaic Modules at Katihar Division. (Phase-II).		
Bidding type	Normal Tender		
Tender Type	Open	Bidding System	Single Packet System
Tender Closing Date Time	09/12/2024 15:00	Date Time Of Uploading Tender	14/11/2024 20:11
Pre-Bid Conference Required	No	Pre-Bid Conference Date Time	Not Applicable
Advertised Value	90384163.63	Tendering Section	WORKS
Bidding Style	Single Rate for Tender	Bidding Unit	Above/Below/Par
Earnest Money (Rs.)	602000.00	Validity of Offer (Days)	60
Tender Doc. Cost (Rs.)	0.00	Period of Completion	3 Months
Contract Type	Works	Contract Category	Expenditure
Bidding Start Date	25/11/2024	Are Joint Venture (JV) firms allowed to bid	No
Ranking Order For Bids	Lowest to Highest	Expenditure Type	Solarization of Rooftop

2. SCHEDULE

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule 1-PART-I (Electrical Deptt.)-BH							82734837.00	
1	Please see Item Breakup for details.				78696181.00	AT Par	78696181.00	
	Description:- Schedule-A (Station / LC Gates / Service Building / Residential Building):- Please see item breakup for details.							
2	Please see Item Breakup for details.				4038656.00	AT Par	4038656.00	
	Description:- Schedule B-Additional Electrical Items:- Please see item breakup for details.							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule 2-PART-II (Civil Engg. Work)							7649326.63	
1	Please see Item Breakup for details.				7649326.63	AT Par	7649326.63	
	Description:- Please see item breakup for details.							

3. ITEM BREAKUP

Schedule	Schedule 1-PART-I (Electrical Deptt.)-BH							
Item- 1	Schedule-A (Station / LC Gates / Service Building / Residential Building):- Please see item breakup for details.							
S No.	Item No	Description of Item			Unit	Qty	Rate	Amount

**KATIHAR DIVISION-ELECTRICAL/N F RLY
TENDER DOCUMENT**

Tender No: 18_2024

Closing Date/Time: 09/12/2024 15:00

1	1	"Design, Supply at site, fixing, installation testing and commissioning of ""Grid Connected"" (On-Grid) Rooftop Solar PV System including all required accessories (cost includes cost of Solar PV panels (with cell and modules), inverter (single/3 phase wherever applicable), balance of system e.g. cable, switches/ circuit breaker/ connectors/ junction box (ACDB & DCDB), mounting structure, earthing, lightening arrester, and civil works, CMC for 5 years, transportation, insurance, applicable taxes, etc.) as per MNRE Standard. Provision of web based smart monitoring in various visual & graphical formats / Data storage system and any charges of electricity board to be borne by contractor. Site to be surveyed and drawing to be submitted for approval before starting of work." (i) >1 KW upto 2 KW	KWp	25.00	48317.00	1207925.00
2	2	(ii) >2 KW upto 3 KW	KWp	1065.00	47062.00	50121030.00
3	3	(iii) >3 KW upto 10 KW	KWp	59.00	45910.00	2708690.00
4	4	(iv) >10 KW upto 100 KW	KWp	69.00	42824.00	2954856.00
5	5	(v) >100 KW upto 500 KW	KWp	540.00	40192.00	21703680.00
					Total	78696181.00
Item- 2	Schedule B-Additional Electrical Items:- Please see item breakup for details.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Supply, installation, testing & commissioning of Single Phase Net Metering of various capacity solar plant including Meter Set (Both Solar Meter and Net Meter) and Meter Box inclusive of all Discom Fees i.e. Registration Fees, feasibility Fees, Testing Fees and all other charges and accessories / panel etc. with LTCT/HTCT required at site .	Numbers	32.00	27501.00	880032.00
2	2	Supply, installation, testing & commissioning of Three Phase Net Metering of various capacity solar plant including Meter Set (Both Solar Meter and Net Meter) and Meter Box inclusive of all Discom Fees i.e. Registration Fees, feasibility Fees, Testing Fees and all other charges and accessories / panel etc. with LTCT/HTCT required at site.	Numbers	16.00	38194.00	611104.00
3	3	(A) Supply & fixing of MCB enclosure 2 way, 2 module, made of CRCA sheet steel powder coated, IP30, metal door alongwith supply & fixing of following MCB as per instruction of Engineer incharge at site.	Numbers	600.00	500.00	300000.00
4	4	(B) MCB DP 16-32 amps, 2 module, 10 kA, C-curve Conforms to IS/IEC 60898 - 1:2002	Numbers	300.00	501.00	150300.00
5	5	(C) MCB DP 63 amps, C-curve, 2 module, 10 kA, conforms to IS/IEC 60898:2002	Numbers	300.00	1064.00	319200.00
6	6	(A) Supply, installation, testing & commissioning of 4 way SPN distribution board, Flush/Surface mounting, IP 43 grade protection with copper bus bar, fully shrouded neutral bar, earth bar, cable ties, Prefitted masking sheet, Reversible metal door as per IEC 61439-3 and having following MCB as per instruction of Engineer Incharge at Site.	Numbers	32.00	1461.00	46752.00
7	7	(B) MCB FP 63 amps, C-curve, 10 kA, ISI marked, comforms to IS/IEC 60898-1:2002	Numbers	32.00	1838.00	58816.00
8	8	Supply & fixing of MCCB FP 100 amps, 35 kA, Ics=100% Icu with Metal Enclosure as per instruction of Engineer Incharge at Site.	Set	20.00	7495.00	149900.00

**KATIHAR DIVISION-ELECTRICAL/N F RLY
TENDER DOCUMENT**

Tender No: 18_2024

Closing Date/Time: 09/12/2024 15:00

9	9	Laying, commissioning & testing of HT/LT XLPE/PVC cable of different sizes partly along the pole and partly through ground in cable trench by excavation of ground below 1.5 mt from ground level with suitable fixing arrangement by MS clamp of size 50x6 mm and suitable size nut , bolt. Loading, Unloading & Carrying of cable to actual work site by contractor's own arrangement.	Metre	4800.00	50.00	240000.00
10	10	Supply, laying, commissioning & testing of 2 core, 10 sq mm LT power copper cable, stranded, XLPE Insulated, Cores Laid Up, PVC Innersheathed, Armoured, Extruded PVC Type ST2 Sheathed, 650/1100 V Grade As Per IS 7098 (Part 1) 1988, to be laid partly through ground by excavation of ground and partly along wall/structure with fixing arrangement by MS clamps, nut, bolt, washer, sockets etc.	Metre	2000.00	193.00	386000.00
11	11	Supply , laying , commissioning & testing of HDPE pipe 110 mm dia PN-6 grade conforming IS 4984/1995 or latest to to be laid partly along the pole with suitable fixing arrangement by MS clamp made of MS flat of size 50x6 mm and suitable size nut , bolt, washer as per instruction of Engineer incharge at site.	Metre	800.00	351.00	280800.00
12	12	Supply, laying , commissioning & testing of HDPE pipe 50 mm dia, PN-6 grade to be laid partly along the pole/wall with suitable fixing arrangement by MS clamp made of MS flat of size 50x6 mm and suitable size nut , bolt, washer etc as per instruction of Engineer Incharge at site.	Metre	2000.00	64.00	128000.00
13	13	"Supply and testing of Data management and web based smart monitoring system to monitor the solar generation and healthiness of complete system of Solar PV with all accessories comprising:- a) Supply, testing and installation of Desktop All in one, 8 GB RAM/1 TB HDD, Operating system-Windows 1 1 with all accessories (Lenovo Model Number : F0G0015LIN or similar) b) Supply, testing and installation of Inkjet Printer, all-in-one (Print/Scan /Copy) Black and Colour both, 15-22 Page Per Minute, Built in Body Tank, Space saving Square shaped or latest version with all accessories (Epson L3210 or Similar)"	Set	4.00	70498.00	281992.00
14	14	Supply & erection of earth by 80 mm dia 3 Mtr. Long (medium guage) GI earth electrode, 8 SWG GI wire, GI nuts, bolts including masonry materials for earthing pit, salt, charcoal etc and construction of earth pit covered with cement concrete plate having locking arrangement and watering pipe as per drg. No.- CEE/STD/1.	Numbers	80.00	2572.00	205760.00
					Total	4038656.00
Schedule	Schedule 2-PART-II (Civil Engg. Work)					
Item- 1	Please see item breakup for details.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Civil Engineering cost for installation of "Grid Connected" Rooftop Solar Power Plants at above location.	Lumpsum	1.00	7649326.63	7649326.63
					Total	7649326.63

4. ELIGIBILITY CONDITIONS

**KATIHAR DIVISION-ELECTRICAL/N F RLY
TENDER DOCUMENT**

Tender No: 18_2024

Closing Date/Time: 09/12/2024 15:00

Special Financial Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	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. (Click here to download Format)	No	No	Allowed (Mandatory)

Special Technical Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	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: (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. Similar nature of work is " Supply, installation, testing & commissioning of Solar Power Plant having executed a single work of minimum 30% rating of total tendered quantity/capacity in Railway stations or Metro stations or Airports or in any Office/Service buildings/Hospitals of Central Govt./State Govt./PSUs of Central or State Govt." (As per PCEE/MLG/NFR's L/No.-EL/W/29/Similar works, dated- 10.07.2024)	No	No	Allowed (Mandatory)
2	Similar nature of work - Supply, installation, testing & commissioning of Solar Power Plant having executed a single work of minimum 30% rating of total tendered quantity/capacity in Railway stations or Metro stations or Airports or in any Office/Service buildings/Hospitals of Central Govt./State Govt./PSUs of Central or State Govt.	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.
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.

**KATIHAR DIVISION-ELECTRICAL/N F RLY
TENDER DOCUMENT**

Tender No: 18_2024

Closing Date/Time: 09/12/2024 15:00

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	Partnership firm/Joint Venture (JV) / Hindu Undivided Family (HUF) / Limited Liability Partnership (LLP) etc. 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. (Click here to download the Format of Self Certification)

5. COMPLIANCE

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)

General Instructions

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	The tenderer is advised to study the tender document in www.ireps.gov.in portal carefully.	No	No	Not Allowed
2	These Conditions of tender shall be read in conjunction with General Condition of Contract /2022 subject to modification, additions or supersession's by Special Condition of Contract and Specification if any.	No	No	Not Allowed
3	General Condition of Contract and Specification for material and works of the N.F. Railway can be seen at the office of DRM(Electrical) KIR N.F.Railway.	No	No	Not Allowed
4	Tenderer whose tender is accepted shall be required to appear at the office of DRM(Electrical) KIR N.F.Railway in person or if a firm or corporation a duly authorized representative shall so appear and execute an agreement in the form for carrying out the works according to the General and Special Condition of Contract and Specification 2022 for the work within seven days after notice to him that the contract documents are ready. Failure to do so shall constitute a breach of the agreement effected by the acceptance of the tender in which case of earnest money accompanying the tender shall stand forfeited without prejudice to any rights or remedies.	No	No	Not Allowed
5	In the event any tenderer whose tender is accepted shall refuse to execute the contract agreement as herein before provided and or fail to commence the work within a reasonable time (to be determined by the Engineer) after notification of the acceptance of his tender the Railway may determine that such tender has abandoned the contract and there upon his tender and the acceptance thereof shall be null and void and the Railway shall be entitled to forfeit the Earnest Money as liquidated damages for such default without prejudice to any rights or remedies.	No	No	Not Allowed
6	JOINT VENTURE will only be permitted in the tender value of Rs.10 (Ten) crore and above.	No	No	Not Allowed

**KATIHAR DIVISION-ELECTRICAL/N F RLY
TENDER DOCUMENT**

Tender No: 18_2024

Closing Date/Time: 09/12/2024 15:00

7	Contractor has also to submit execution programme within 15 days of issue of Acceptance letter or at the time of signing CA whichever is earlier.	No	No	Not Allowed
8	All documents being submitted by the Tenderer(s) alongwith their offer shall have to be self attested by the Tenderer	No	No	Not Allowed
9	The earnest Money and tender documents cost in respect of e-tendering will be accepted through net banking on payment gate way. The Bid Security shall be deposited either in cash through e payment gateway or submitted as Bank Guarantee bond from a scheduled commercial bank of India or as mentioned in tender documents. The Bank Guarantee bond shall be as per Annexure-VIA and shall be valid for a period of 90days beyond the bid validity period.	No	No	Not Allowed
10	Fixed Deposit Receipt (FDR) will not be accepted as EMD for tender invited on IREPS (e-tender portal). (Authority Railway Boards Letter No. 2014/CE- 1/WP/5 of 01.09.16	No	No	Not Allowed
11	The earnest Money deposited by the Contractor with his tender will be retained by the Railways as part of Security for the due and faithful fulfillment of the contract by the contractor. The balance to make up the security deposit, the rate of recovery should be @ 10 Percent of the bill amount till the full security Deposit of 5 Percent of the contract value is recovered.	No	No	Not Allowed
12	Every tenderer shall state in the tender his postal address fully and clearly. Any communication sent in time to the tenderer by post at the said address shall be deemed to have reached the tenderer duly and in time. Important documents shall be sent by Registered post.	No	No	Not Allowed
13	The tenderer shall deposit their earnest money with the Tender for the due performance with the stipulation to keep the offer open till such date as specified in the Tender under the condition of Tender The earnest money shall be 2 Percent of the Tender face value in the name of FA and CAO/N. F. Railway/MLG as indicated in the Tender notice. The earnest Money shall be rounded to the nearest Rs.100/-	No	No	Not Allowed
14	It may be noted that submission of complete and accurate information is the responsibility of the tenderer. The Tender Inviting Authority reserves the right to verify, in any manner at its sole discretion, the accuracy of the information furnished by the Tenderer and if it is revealed that the Tenderer had submitted incorrect information to derive undue benefits, his Tender may be summarily rejected on these grounds	No	No	Not Allowed
15	The value of PG to be submitted by the contractor will not change for variation upto 25 Percent (either increase or decrease). In case during the course of execution, value of the contract increases by more than 25 Percent of the original contract value, an additional Performance Guarantee amounting to 5 Percent (five percent) for the excess value over the original contract value shall be deposited by the contractor.	No	No	Not Allowed
16	The Performance Guarantee (PG) shall be released after physical completion of the work based on Completion Certificate? issued by the competent authority stating that the contractor has completed the work in all respects satisfactorily. The Security Deposit shall, however, be release only after expiry of the maintenance period and after passing the final bill based on No Claim Certificate? from the contractor.	No	No	Not Allowed
17	Eligibility criteria for works tender in respect of Employment/Partnership etc. of Retired Railway Employees :-	No	No	Not Allowed

**KATIHAR DIVISION-ELECTRICAL/N F RLY
TENDER DOCUMENT**

Tender No: 18_2024

Closing Date/Time: 09/12/2024 15:00

17.1	(a) Should a tenderer (i) be a retired Engineer of the gazetted rank or any other gazetted officer working before his retirement, whether in the executive or administrative capacity or whether holding a pensionable post or not, in the Engineering or any other department of any of the railways owned and administered by the President of India for the time being, OR (ii) being partnership firm / joint venture (JV) / registered society / registered trust etc have as one of its partners/members a retired Engineer of the gazetted rank or any other gazetted officer working before his retirement, OR (iii) being an incorporated company have any such retired Engineer of the gazetted rank or any other gazetted officer working before his retirement as one of its directors AND in case where such Engineer or officer had not retired from government service at least 1 year prior to the date of submission of the tender THEN the tenderer will give full information as to the date of retirement of such Engineer or gazetted officer from the said service and as to whether permission for taking such contract, or if the Contractor be a partnership firm or an incorporated company, to become a partner or director as the case may be, has been obtained by the tenderer or the Engineer or officer, as the case may be from the President of India or any officer, duly authorized by him in this behalf, shall be clearly stated in writing at the time of submitting the tender.	No	No	Not Allowed
17.2	b) In case, upon successful award of contract, should a tenderer depute for execution of the works under or to deal matters related with this contract, any retired Engineer of gazette rank or retired gazetted officer working before his retirement in the Engineering or any other department of any of the railways owned and administered by the President of India for the time being, and now in his employment, then the tenderer will ensure that retired Engineer or retired gazetted officer had retired from government service at least 1 year prior to the date of his employment with tenderer and in case he had retired from service within a year then he possesses the requisite permission from the President of India or any officer, duly authorized by him in this behalf, to get associated with the tenderer.	No	No	Not Allowed
17.3	c) Should a tenderer or Contractor being an individual, have member(s) of his family or in the case of partnership firm/ company / joint venture (JV) / registered society / registered trust etc. one or more of his partner(s)/shareholder(s) or member(s) of the family of partner(s)/shareholder(s) having share of more than 1%in the tendering entity employed in gazetted capacity in the Engineering or any other department of the railway, then the tenderer at the time of submission of tender, will inform the authority inviting tenders the details of such persons.	No	No	Not Allowed
17.4	Note: -If information as required as per 17.1, 17.2, 17.3 above has not been furnished, contract is liable to be dealt in accordance with provision of clause 62 of the Standard General Condition of contract.	No	No	Not Allowed
18	In these Conditions of tender the terms shall have the meaning assigned to them in the N.F.Railway Electrical Department. General Condition of Contract/2022 as amended from time to time hereinafter referred to as the General Condition of the Contract except where the context otherwise requires.	No	No	Not Allowed
19	For those conditions for which standard formats have been given in the uploaded document titled-Formats for uploading of various format. The information should only be submitted in these standard formats	No	No	Not Allowed
20	Rates are inclusive of all taxes/octroi, license fee, royalty charges etc. legally leviable by State, Central Govt. and/or any other local authority.	No	No	Not Allowed
21	In addition to General condition of contract 2022 and Indian Railways Unified standard specification Works Materials Volume I II 2010, revised upto date, special condition attached shall also apply.	No	No	Not Allowed
22	Sales tax/Business tax will be recovered as per extant instruction on the subject.	No	No	Not Allowed

**KATIHAR DIVISION-ELECTRICAL/N F RLY
TENDER DOCUMENT**

Tender No: 18_2024

Closing Date/Time: 09/12/2024 15:00

23	Earnest Money and Tender Document Cost: -All the tenderers / Contractors have to deposit full earnest money and tender document cost as stipulated in the tender document through net banking or payment get way. Note: The Bid Security shall be deposited either in cash through e payment gateway or submitted as Bank Guarantee bond from a scheduled commercial bank of India or as mentioned in tender documents. The Bank Guarantee bond shall be as per Annexure-VIA and shall be valid for a period of 90days beyond the bid validity period. In case, submission of Bid Security in the form of Bank Guarantee, following shall be ensured: (i) A scanned copy of the Bank Guarantee shall be uploaded on e-Procurement Portal (IREPS) while applying to the tender. (ii) The original Bank Guarantee should be delivered in person to the official nominated as indicated in the tender document within 5 working days of deadline of submission of bids. (iii) Non submission of scanned copy of Bank Guarantee with the bid on e-tendering portal (IREPS) and/or non submission of original Bank Guarantee within the specified period shall lead to summary rejection of bid. (iv) The Tender Security shall remain valid for a period of 90 days beyond the validity period for the Tender. (v) The details of the BG, physically submitted should match with the details available in the scanned copy and the data entered during bid submission time, failing which the bid will be rejected (vi) The Bank Guarantee shall be placed in an envelope, which shall be sealed. The envelope shall clearly bear the identification "Bid for the ***** Project" and shall clearly indicate the name and address of the Bidder. In addition, the Bid Due Date should be indicated on the right hand top corner of the envelope. (vii) The envelope shall be addressed to the officer and address as mentioned in the tender document. (viii) If the envelope is not sealed and marked as instructed above, the Authority assumes no responsibility for the misplacement or premature opening of the contents of the Bid submitted and consequent losses, if any, suffered by the Bidder.	No	No	Not Allowed
24	Deposit Receipts, Pay Orders, Demand Drafts and Guarantee Bonds. These forms of Performance Guarantee could be either of the State Bank of India or of any of the Nationalized Banks.	No	No	Not Allowed
25	Eligibility criteria for works tender in respect of partnership firms:-	No	No	Not Allowed
25.1	In case the tenderer is a partnership firms , the experience, solvency and turn over shall be in the name and style of the firm only.	No	No	Not Allowed
25.2	If the tenderer is a partnership firm, all the partners shall be jointly and severally liable for successful completion of the work and no request for change on the certification of the firm shall be entertained.	No	No	Not Allowed
25.3	During the currency of the contract, no partner of the firm shall be permitted to withdraw from partnership business and in such and event it shall be treated as breach of trust and abandonment of the contract.	No	No	Not Allowed
26	Any Conditional offer will be summarily rejected.	No	No	Not Allowed
27	For Standard Financial criteria and Standard Technical criteria - Tenderers are required to submitted authenticated certificate along with the tenders from officers of government or semi-government/public sector undertakings under whom the work has been executed indicating there in the name of work executed, value of works/payment details and period during which completed. Such certificates should have signature and seal of the concerned officer. In the absence of such certificate the tender may not be considered.	No	No	Not Allowed
28	All tenderers are expected to submit full credentials with their tender to establish their capacity to undertake and successfully complete the tender work.	No	No	Not Allowed

**KATIHAR DIVISION-ELECTRICAL/N F RLY
TENDER DOCUMENT**

Tender No: 18_2024

Closing Date/Time: 09/12/2024 15:00

29	The Tenderers should ensure that the information given in this part of the tender clearly establishes his capacity to successfully execute the tender work. It may be noted that the Tender Inviting Authority does not have any obligation to seek clarification on the information furnished or the information furnished is incomplete/inadequate to establish the tenderers capacity, the tender is likely to be rejected on these grounds. No plea made by the tenderer on this account by submitting additional information, etc. shall be entertained by the Tender Inviting Authority.	No	No	Not Allowed
30	The successful bidder shall have to submit a Performance Guarantee (PG) within 21 (Twenty one) days from the date of issue of Letter of Acceptance (LOA). Extension of time for submission of PG beyond 21 (Twenty one) days and upto 60 days from the date of issue of LOA may be given by the Authority who is competent to sign the contract agreement. However, a penal interest of 12% per annum shall be charged for the delay beyond 21(Twenty one) days, i.e. from 22ndday after the date of issue of LOA. Further, if the 60thday happens to be a declared holiday in the concerned office of the Railway, submission of PG can be accepted on the next working day. In all other cases, if the Contractor fails to submit the requisite PG even after 60 days from the date of issue of LOA, the contract is liable to be terminated. In case contract is terminated railway shall be entitled to forfeit Bid Security and other dues payable to the contractor against that particular contract, subject to maximum of PG amount. In case a tenderer has not submitted Bid Security on the strength of their registration as a Startup recognized by Department of Industrial Policy and Promotion (DIPP) under Ministry of Commerce and Industry, DIPP shall be informed to this effect. The failed Contractor shall be debarred from participating in re-tender for that work.	No	No	Not Allowed
31	The successful bidder shall submit the Performance Guarantee (PG) in any of the following forms, amounting to 5% of the original contract value:- (i) A deposit of Cash; (ii) Irrevocable Bank Guarantee; (iii) Government Securities including State Loan Bonds at 5% below the market value; (iv) Pay Orders and Demand Drafts tendered by any Scheduled Commercial Bank of India; (v) Guarantee Bonds executed or Deposits Receipts tendered by any Scheduled Commercial Bank of India; (vi) Deposit in the Post Office Saving Bank; (vii) Deposit in the National Savings Certificates; (viii) Twelve years National Defence Certificates; (ix) Ten years Defence Deposits; (x) National Defence Bonds and (xi) Unit Trust Certificates at 5% below market value or at the face value whichever is less. Also, FDR in favour of FA & CAO / N. F. Railway / Maligaon (free from any encumbrance) may be accepted.	No	No	Not Allowed
32	The Performance Guarantee shall be submitted by the successful bidder after the Letter of Acceptance (LOA) has been issued, but before signing of the contract agreement. This P.G. shall be initially valid upto the stipulated date of completion plus 60 days beyond that. In case, the time for completion of work gets extended, the Contractor shall get the validity of P.G. extended to cover such extended time for completion of work plus 60 days.	No	No	Not Allowed
33	The value of PG to be submitted by the Contractor is based on original contract value and shall not change due to subsequent variation(s) in the original contract value.	No	No	Not Allowed
34	The Performance Guarantee (PG) shall be released after physical completion of the work based on 'Completion Certificate' issued by the competent authority stating that the Contractor has completed the work in all respects satisfactorily. The Security Deposit shall, however, be release only after expiry of the maintenance period and after passing the final bill based on No Claim Certificate from the contractor	No	No	Not Allowed
35	Whenever the contract is rescinded, the Performance Guarantee already submitted for the contract shall be encashed.	No	No	Not Allowed

**KATIHAR DIVISION-ELECTRICAL/N F RLY
TENDER DOCUMENT**

Tender No: 18_2024

Closing Date/Time: 09/12/2024 15:00

36	No post tender correspondence will be done with participant tenderer(s) for submission of document for the deficiencies noted during the scrutiny of tender/offer. Offer of tenderer(s) will be strictly decided on the basis of the downloaded documents like credential, earnest money and tender cost etc.as found uploaded by the tenderer(s) with there respective offer. Hence tenderer shall not be asked to submit any additional document after opening of tender. In case of submission of incomplete document by tenderer, tender offer will be rejected and tender committee can move to next valid tenderer as per document submitted	No	No	Not Allowed
----	--	----	----	-------------

Special Conditions

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	There shall not be any deviation from Electrical drawing and specification without prior approval of Competent Authority.	No	No	Not Allowed
2	All damage caused during the execution of work shall be made good to original finish.	No	No	Not Allowed
3	All works executed as per latest RDSO Specification/Latest Guideline issued by Central Govt. Agency/MNRE Standard.	No	No	Not Allowed
4	All the materials should be got approved by the officer in charge at site and Sr.DEE/G & CHG./KIR before execution of the work.	No	No	Not Allowed
5	Guaranty/warranty against any manufacturing defects for any items supplied to be provided from the date of commissioning.	No	No	Not Allowed
6	Design, detailed engineering, manufacturing, supply, installation, testing and commissioning of Grid Connected Solar PV Power Plant of the required capacities. Transpotatipon, insurance, transit insurance, Taxes, required civil work/mechanical work for foundation etc., storage of materials, statutory clearance & approval etc. and any other items or accesories required for successful commissioning of Power Plant on "Single Responsibility" basis. In addition to the above, operation & maintainance of 05 (Five) years including replacement of all parts cover under the guarantee, providing tools & tackles required for maintenace purpose required spare parts etc. shall be the part of the contract for period of 05 (five) years from date of commissioning of Roof Top Based Solar PV Power Plant.	No	No	Not Allowed
7	Design, detailed engineering, manufacturing, supply, installation, testing and commissioning of Grid Connected Solar PV Power Plant with all accessories (inclusive of Electrical, Electronic and Mechanical features) along with Power Conditioning Units (PCUs), as required should be as per RDSO Specification/ Latest Guideline issued by Central Govt Agency / Indian Railway / MNRE Standard.	No	No	Not Allowed
8	Site survey should be conduct by Company/Firm with SSE/Elect-in-charge & SSE/Works-in-charge for choose of location and capacity of Solar power plant.	No	No	Not Allowed
9	All electrical works should comply with Indian Electricity Act 2003 and Indian Electricity Rules 1956.	No	No	Not Allowed
10	All electrical installations works shall conform to relevant Indian Standard Code of Practice and carried out as per relevant safety Code of Practices, Guide for Safety Procedures in Electrical Work as per I.S. 5216/Pt.I & II/1982 shall be observed.	No	No	Not Allowed
11	After completion of installation and commissioning of the respective Solar PV Power plant complete system by the contractor, the operation & maintainance of Solar power plant shall be provided for 5 consecutive years without any extra cost.	No	No	Not Allowed

**KATIHAR DIVISION-ELECTRICAL/N F RLY
TENDER DOCUMENT**

Tender No: 18_2024

Closing Date/Time: 09/12/2024 15:00

12	The operation & maintenance of Solar Photovoltaic Power Plant would include wear, tear, overhauling, machine breakdown, insurance, and replacement of defective modules, inverters / Power Conditioning Unit (PCU), spares, consumables & other parts for entire free maintenance & paid maintenance period. During this period, the bidder shall be responsible for supply of all spare parts as required from time to time for scheduled and preventive maintenance, major overhauling of the plant, replacement of defective modules, inverters, PCU's etc. and maintaining log sheets for operation detail, deployment of staff for continuous operations and qualified engineer for supervision of O&M work, complaint logging & its attending.	No	No	Not Allowed
13	Sufficient bird spike should be provided to avoid bird sitting on the solar modules.	No	No	Not Allowed
14	Supply and installation of Module mounting structure / super structure on identified locations. The successful tenderer shall design their SPV Panel structure with Hot dipped galvanised steel and cement concrete (CC) foundation suitable for site condition. Design of SPV structure shall be certified /vetted by a recognized Govt. Engineering College viz. IIT / NIT etc. or by a reputed structural consultant and submitted for approval before taking up the structure and foundation works.	No	No	Not Allowed
15	Supply, installation, testing and commissioning of three phase Power Conditioning Units (PCU), (inverter plus local grid synchronizing system), distribution panels, electrical switchgears, inverters, metering and connecting the system to the switchgear (MCB/Distribution Board) provided by the Bank for load and connecting up the system to the electrical grid surge protection units etc. as required.	No	No	Not Allowed
16	Supply and laying of all power and control cables on prefabricated GI cable trays including supply of cable trays, their installation, hangers, supports, cable terminations and all fixing accessories.	No	No	Not Allowed
17	Earthing: Supply and installation of two nos. 500 x 500 x 3 mm copper plate of earthing systems with copper strip/cable from earthing station to the entire system including interconnection of solar panels. Earthing stations shall be provided with testing point for every pits as per relevant IS, including cutting of roads / paved areas & making good the damages as in original shape.	No	No	Not Allowed
18	Testing and commissioning of the entire system including synchronizing with power grid and operation as required. The installation shall include the electrical switchgears, cabling, terminations, cable trays, inverters, metering and connecting the system to the electrical grid.	No	No	Not Allowed
19	The PV modules shall be installed with the necessary tilt with the most effective orientation.	No	No	Not Allowed
20	All related & required civil works will be the responsibility of successful tenderer.	No	No	Not Allowed
21	Provision for periodic cleaning of the solar panels considering the ambient conditions of the site.	No	No	Not Allowed
22	Supply of the recommended spare parts along with the main equipment's to avoid downtime during Guaranty/Warranty and defect liability period.	No	No	Not Allowed
23	Inspection of the complete installation at least twice every year during guarantee period by the respective equipment manufacturer's specialist Engineer(s).	No	No	Not Allowed
24	Metering and grid connectivity of the roof top solar PV system under this scheme would be the responsibility of the Bidder in accordance with the prevailing guidelines of the concerned DISCOM and / or CEA.	No	No	Not Allowed

**KATIHAR DIVISION-ELECTRICAL/N F RLY
TENDER DOCUMENT**

Tender No: 18_2024

Closing Date/Time: 09/12/2024 15:00

25	<p>Penalty Clause:- (i) If the bidder/Company/Firms fails to commission the SPV Plant within 3 months from date of issue of LOA, Penalty of ' 50000/- per installation/Month is imposed. (ii) For any failure reported, Firms should rectify the Plant within 3 days from the date and time of intimation of the failure of SPV plant. Any lapse to comply the above will result in penalization at ' 20000/- per day per installation (After 3 days) shall be made upto rectification. (iii) Non deployment of staff for operations & maintenance of SPV Plant:- ' 2000/- per day per installation will be imposed. (iv) For any damage or missing of materials or any other Railway property the rate as fixed by Railway authority will be charge from the contractor. (v) For not working condition/less efficient working condition of solar power plant per installation penalty of ' 5000/- per day will be imposed the amount will be deducted from contractor's bill. (vi) For any lapse on the part of the contractor which lead to loss of Railway a penalty of ' 3000/-per case will be imposed the amount will be deducted from contractor's bill. (vii) If case of theft of any Railway property due to negligence on the part of the contractor, the price of the property as fixed by the railway authority will be charged from the contractor and will be deducted from the contractor's bill. (viii) For not fulfilling of any term and condition/scope of work except above penalties, a penalty will be imposed and the rate as fixed by Railway authority will be charge and will be deducted from the contractor's running bills.</p>	No	No	Not Allowed
----	--	----	----	-------------

**KATIHAR DIVISION-ELECTRICAL/N F RLY
TENDER DOCUMENT**

Tender No: 18_2024

Closing Date/Time: 09/12/2024 15:00

26	<p>For the automated cleaning of solar panels using a jet pump system, several requirements need to be considered to ensure efficiency, reliability, and long-term performance to be provided by the tenderer. The following points should be approved by the competent authority and site incharge. (i) Water Source and Quality:- Consistent Water Supply: An uninterrupted water source is essential for automated cleaning. storage tanks to be provided if the supply is inconsistent. Water Quality: Ideally, use purified or filtered water with low mineral content to avoid mineral deposits or stains on panels. RO (Reverse Osmosis) treated water is preferred for longevity. Water Pressure: The jet pump system requires adequate pressure to operate efficiently. Pressure must be controlled to avoid potential panel damage. (ii) Pipeline Network:- Material: Use corrosion-resistant materials like PVC, HDPE, or stainless steel to ensure longevity and prevent rust, which can clog jets. Diameter and Flow Capacity: The diameter should be sized to handle the required flow rate and maintain adequate pressure at all jets. Layout: The pipeline layout should be optimized to reduce pressure loss. Direct, minimal bends and appropriately spaced nozzles are ideal. It should be approved by the competent authority and site incharge. Thermal Insulation: In regions with high temperatures, consider insulating pipes to prevent water heating up, as very hot water can harm the panels. (iii) Jet Nozzles and Positioning:- Nozzle Type: Choose nozzles that produce a fine mist or a directed jet to avoid unnecessary water waste and ensure effective cleaning without damage. Positioning: Place nozzles at an optimal angle and distance to cover the entire panel surface, ensuring even cleaning without leaving streaks. Adjustable or Rotating Nozzles (optional): This feature can improve coverage and allow for directional adjustments as needed. (iv) Jet Pump System:- Pump Capacity: Choose a jet pump with enough capacity to handle the expected load, maintaining a consistent flow and pressure. Automatic Control System: An automated control system (integrated with timers, sensors, or IoT solutions) is essential for scheduled cleaning cycles, avoiding manual operation. Backflow Prevention: Install backflow prevention valves to avoid contamination or loss of pressure. (v) Drainage System:- Drainage Channels: Ensure there is a drainage system below the solar panels to handle runoff water, preventing water accumulation that can damage nearby infrastructure. Filtration: Use filters in the drainage to prevent clogging and ensure that recycled water is adequately treated if reused. (vi) Power Supply and Control Mechanism:- Power Backup: Solar or UPS backup is beneficial to ensure operation during power cuts. Control System Integration: Integrate the pump and cleaning system into a centralized control unit, allowing remote monitoring and adjustments based on weather or panel dirt levels. (vii) Maintenance Plan:- Periodic Maintenance: Schedule regular inspections for the pipeline, jets, and pumps to check for leaks, blockages, or wear. Clog Prevention: Install filters at critical points to prevent debris from clogging nozzles and pipes. An automated jet pump cleaning system should be highly efficient and reduce manual labor, provided that these factors are well-planned and implemented.</p>	No	No	Not Allowed
27	<p>Offers are to be submitted as per GST regime. GSTIN registration should be provided by the contractor.</p>	No	No	Not Allowed
28	<p>The Contractor shall be responsible to ensure compliance with the provision of the i) Minimum Wages Act, 1948, ii) Payment of Wages Act, 1936, iii) contract labour (Regulation and Abolition) Act, 1970 and the Contract labour (Regulation and Abolition) Central Rules 1971, iv) Para 30 & 36-B of the Employees Provident Fund Scheme, 1952; Para 3 & 4 of Employees' Pension Scheme, 1995; and Para 7 & 8 of Employees Deposit Linked Insurance Scheme, 1976, v) Section 12 Sub-Section (1) of the Workmen's Compensation Act 1923 and follow all Labour's law / rules as given in Standard General Conditions Of Apr 2022 or latest of Indian Railway with latest amendments.</p>	No	No	Not Allowed
29	<p>The bidder has to follow all terms and condition which will be issued from Division/HQ/Railway Board related to GST.</p>	No	No	Not Allowed

**KATIHAR DIVISION-ELECTRICAL/N F RLY
TENDER DOCUMENT**

Tender No: 18_2024

Closing Date/Time: 09/12/2024 15:00

30	Please read and follow 55-C of Part II as given in Standard General Conditions of Contract 2022 or latest of Indian Railway regarding registration and upload requisite details of labour and their payment in the "www.shramikkalyan.indianrailways.gov.in" portal.	No	No	Not Allowed
31	SSE/IC of concern or their nominated representative shall be responsible for inspection of material and supervision of this contract and for certifying the quantum for purposes of payment of the contractor's bill.	No	No	Not Allowed

Technical-Compliances

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	The tenderers shall submit a copy of Tender Form (First Sheet) alongwith bid. (Standard format of certificate to be submitted by the bidder is enclosed as Annexure-I in GCC/2022 for works). (Click here to download Format)	Yes	Yes	Allowed (Mandatory)
2	The tenderers shall submit a copy of PAN and GST Registration Certificate.	Yes	Yes	Allowed (Mandatory)
3	The tenderers shall submit a copy of certificate stating that all their statements/documents submitted alongwith bid are true and factual. Standard format of certificate to be submitted by the bidder is enclosed as Annexure-V. In addition to Annexure-V, in case of other than Company/Proprietary firm. Annexure-V (A) shall also be submitted by the each member of a Partnership Firm / Joint Venture (JV) / Hindu Undivided Family (HUF) / Limited Liability Partnership (LLP) etc, as the case may be. Non submission of above certificate(s) by the bidder shall result in summarily rejection of his/their bid. It shall be mandatorily incumbent upon the tenderer to identify , state and submit the supporting documents duly self attested/digitally signed by which they/he is qualifying the Qualifying Criteria mentioned in the Tender Document (Click here to download Format)	Yes	Yes	Allowed (Mandatory)
4	The tenderer shall clearly specify whether the tender is submitted on his own (Proprietary Firm) or on behalf of a Partnership Firm / Company / Joint Venture (JV) / Registered Society /Registered Trust / Hindu Undivided Family (HUF) / Limited Liability Partnership (LLP) etc. The tenderer(s) shall enclose the attested copies of the constitution of their concern, and copy of PAN Card along with their tender. Tender Documents in such cases are to be signed by such persons as may be legally competent to sign them on behalf of the firm, company, association, trust or society, as the case may be.	Yes	Yes	Allowed (Mandatory)
5	Partnership Firm:-The tenderer shall clearly specify that the tender is submitted on behalf of a partnership firm. The following documents shall be submitted by the partnership firm, with the tender. (i) A notarized copy of the Partnership Deed or a copy of the Partnership deed registered with the Registrar. (ii) A notarized or registered copy of Power of Attorney in favour of the individual to tender for the work, sign the agreement etc. and create liability against the firm. (iii) An undertaking by all partners of the partnership firm that they are not blacklisted or debarred by Railways or any other Ministry / Department of the Govt. of India from participation in tenders / contracts as on the date of submission of bids, either in their individual capacity or in any firm/LLP in which they were / are partners/members. Any Concealment / wrong information in regard to above shall make the bid ineligible or the contract shall be determined under Clause 62 of the Standard General Conditions of Contract.	Yes	Yes	Allowed (Mandatory)
6	For HUF:- (i) A copy of notarized affidavit on Stamp Paper declaring that he who is submitting the tender on behalf of HUF is in the position of 'Karta' of Hindu Undivided Family (HUF) and he has the authority, power and consent given by other members to act on behalf of HUF.(ii) All other documents in terms of Para 10 of the Tender Form (Second Sheet) of GCC/2022 for works.	Yes	Yes	Allowed (Mandatory)

**KATIHAR DIVISION-ELECTRICAL/N F RLY
TENDER DOCUMENT**

Tender No: 18_2024

Closing Date/Time: 09/12/2024 15:00

7	Company registered under Companies Act2013: (i) The copies of MOA (Memorandum of Association) / AOA (Articles of Association) of the company (ii) A copy of Certificate of Incorporation (iii) A copy of Authorization/Power of Attorney issued by the Company (backed by the resolution of Board of Directors) in favour of the individual to sign the tender on behalf of the company and create liability against the company. (iv) All other documents in terms Para 10 of the Tender Form (Second Sheet) of GCC.	Yes	Yes	Allowed (Mandatory)
8	LLP (Limited Liability Partnership): (i) A copy of LLP Agreement (ii) A copy of Certificate of Incorporation (iii) A copy of Power of Attorney/Authorization issued by the LLP in favour of the individual to sign the tender on behalf of the LLP and create liability against the LLP. (iv) An undertaking by all partners of the LLP that they are not blacklisted or debarred by Railways or any other Ministry / Department of the Govt. of India from participation in tenders / contracts as on the date of submission of bids, either in their individual capacity or in any firm/LLP or JV in which they were / are partners/members. Concealment / wrong information in regard to above shall make the contract liable for determination under Clause 62 of the Standard General Conditions of Contract. (v) All other documents in terms of Para 10 of the Tender Form (Second Sheet) of GCC.	Yes	Yes	Allowed (Mandatory)
9	Sole Proprietorship Firm: (i) All documents in terms of Para 10 of the Tender Form (Second Sheet) of GCC/2022 for works	Yes	Yes	Allowed (Mandatory)
10	Rates included in the tender are Pre-GST rate. The bidder has to bear all changes due to introduction of GST. The bidder has to follow all terms and condition which will be issued from Division/HQ/Railway Board related to GST. The bidder should bid accordingly.	No	No	Allowed (Optional)
11	The Contractor shall be responsible to ensure compliance with the provision of the i) Minimum Wages Act, 1948, ii) Payment of Wages Act, 1936, iii) contract labour (Regulation and Abolition) Act, 1970 and the Contract labour (Regulation and Abolition) Central Rules 1971, iv) Para 30 & 36-B of the Employees Provident Fund Scheme, 1952; Para 3 & 4 of Employees' Pension Scheme, 1995; and Para 7 & 8 of Employees Deposit Linked Insurance Scheme, 1976, v) Section 12 Sub-Section (1) of the Workmen's Compensation Act 1923 and follow all Labour's law / rules as given in Standard General Conditions Of Apr 2022 or latest of Indian Railway with latest amendments.	No	No	Allowed (Optional)
12	Contractor can take payment through "Letter of credit" (LC) arrangement. Please contact SrDEE/ Office for full detail and any query regarding this arrangement.	No	No	Allowed (Optional)
13	List of Personnel, Organization available on hand and proposed to be engaged for the subject work	No	No	Allowed (Optional)
14	List of Plant & Machinery available on hand (own) and proposed to be inducted (own and hired to be given separately) for the subject work.	No	No	Allowed (Optional)
15	List of works completed in the last three financial years giving description of work, organization for whom executed, approximate value of contract at the time of award, date of award and date of scheduled completion of work, Date of actual start, actual completion and final value of contract should also be given.	No	No	Allowed (Optional)
16	List of works on hand indicating description of work, contract value approximate value of balance work yet to be done and date of award.	No	No	Allowed (Optional)
17	Name of the Engineer / Diploma holder:- (i) One qualified Graduate Engineer when the cost of the work to be executed is Rupees Two Hundred Lakh (Rs. 200 Lakh) and above & (ii) One qualified Diploma Holder (Engineer) when the cost of the work to be executed is more than Rupees Twenty Five Lakh(Rs. 25 Lakh), but less than Rupees Two Hundred Lakhs (Rs. 200 Lakh).	No	No	Allowed (Optional)
18	Valid electrical contractor's license issued by the State Government / Central Government.	Yes	Yes	Allowed (Mandatory)
19	Valid supervisory License issued by the State Government / Central Government.	Yes	Yes	Allowed (Mandatory)

**KATIHAR DIVISION-ELECTRICAL/N F RLY
TENDER DOCUMENT**

Tender No: 18_2024

Closing Date/Time: 09/12/2024 15:00

20	There should be bond agreement with the Supervisor showing employability with the Firm.	Yes	Yes	Allowed (Mandatory)
21	A Service Centre set-up (for the tenders of 1 MW & above Solar plant capacity only) :- The Tenderers must have their local service center set-up at Katihar along with trained technicians for attending service requests of Solar power plants fully equipped with maintenance spares, tools & instruments required for prompt attention of the service requests received from Railway Authorities. (Note : Among these places, only the concerned name(s) of place(s) to be mentioned in the tender(s) of concerned jurisdiction).	Yes	Yes	Allowed (Mandatory)
22	Manufacturers and Model of Solar PV Modules:- Tenderers must indicate in the tenders the name of manufacturers and models of solar PV Modules, intended for supply, as per MNRE's list of Manufacturers and models of solar PV Modules enlisted under ALMM Order vide MNRE's Office Memorandum issued vide F. No.-283/54/2018-GRID SOLAR - Part(1) dated 29.04.2024 or latest.	Yes	Yes	Allowed (Mandatory)
23	Additional Clauses / Conditions:- (i) Maintenance:-The solar Power Plants along with all the associated accessories shall have to be maintained healthy by the Contractor/Firm at their own cost for 5 years from the date of certified successful commissioning. Final Completion Certificate (FCC) shall be issued after successful completion of 5 years maintenance period.	No	No	Not Allowed
24	(ii) CUF :- The Contractor/Firm shall be required to meet a minimum guaranteed generation of 15% CUF (Capacity Utilization Factor). The annual CUF shall in no case be less than 15 % . Minimum CUF of 15 % should be maintained during the entire period of 5 years. If generation is less than 15 % for any financial year, then Liquidated Damages(LD)/Penalty @ Rs. 0.25/kWh will be deducted for shortfall in energy generation as shown in the following example. This will be deducted from the PG/SD/security amount withheld by Railways. Example for deduction of Liquidated Damages (LD) / Penalty :- if 1000 kWp plant having 14% CUF during any financial year then penalty will be levied as under =[(kWh generation to meet 15 % CUF) - (Total kWh generated having 14 % CUF)] x Rs. 0.25/kWh = [{(15x365x24x1000)/100}{kWh - {(14x365x24x1000)/100}kWh}] x Rs. 0.25/kWh = [13,14,000 kWh - 12,26,400kWh] x Rs. 0.25/kWh =Rs. 21,900/- For above purpose, daily Solar generation has to be recorded.	No	No	Not Allowed
25	(iii) Web Based Smart Monitoring Facility :- The Successful Tenderer must have to install hardware & software, if any, at their own cost for a web based smart monitoring system along with commissioning of the solar plant. By this monitoring system, Solar Power Plants shall have Real time Web based Smart Monitoring facility so that all the parameters such as Solar Generation, CUF, Efficiency etc. can be monitored & recorded on daily/weekly/monthly/quarterly/half yearly/yearly basis to monitor the healthiness of the complete system of solar power plant during the entire 5 years period of maintenance and also to calculate yearly LD as mentioned in item (ii) above.	No	No	Not Allowed
26	(iv) Cleaning of PV module :- A permanent cleanings system of Solar PV modules with water-jet sprays to be installed by the successful Tenderer along with the SPV module commissioning. The water supply and incoming pipeline to the level of the water jet unit will be made available by Railway. The water jet spray system should be maintained healthy by the successful Tenderer for the entire 5 years period of maintenance.	No	No	Not Allowed
27	(v) Easy accessibility to rooftop :- The successful Tenderer shall have to provide, wherever necessary, a suitable metallic structure/ladder for easy & smooth accessibility to the rooftop, where the SPV modules are installed. This arrangement, so provided, must be maintained healthy by the successful Tenderer for the entire period of 5 years.	No	No	Not Allowed

**KATIHAR DIVISION-ELECTRICAL/N F RLY
TENDER DOCUMENT**

Tender No: 18_2024

Closing Date/Time: 09/12/2024 15:00

28	(vi) The tenderer shall have to submit the name and address of their local agency/service center along with the name(s) and mobile number(s) of the contact person(s) for prompt attention of the service requests received from Railway Authorities. The supporting documents of the service center should be attached along with the offer.	Yes	Yes	Allowed (Mandatory)
----	---	-----	-----	------------------------

Undertakings

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Contractor has to ensure minimum labor wage payment as per latest minimum wage Act. In case of any complain and if found to be true, then work will be terminated immediately without any notice.	No	No	Not Allowed
2	In case of any injury/death to labor during work, it is responsibility of contractor to provide compensation.	No	No	Not Allowed
3	Contractor has to make arrangement for transportation of men and material.	No	No	Not Allowed

Custom

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Make of Items (1) The System/Components/Items of the SPV Power Systems:- RDSO / MNRE approved sources. (2) Switchgear (Enclosure/MCB/DB/MCCB etc.)- LEGRAND / LAURITZ KNUDSEN / SCHNEIDER / SIEMENS / ABB (3) Power Cable (Copper/Aluminium) :- FINOLEX / POLYCAB / KEI / RR Kabel (4) HDPE Pipe :- SWASTIC / DURGUARD DWC DUCT / AJA PLAS / DOLLY	No	No	Not Allowed
2	Check List:- The following documents should be specified for submission along with tender:- (A) Special Financial Criteria (B) Special Technical Criteria (C) The tenderers shall submit a copy of certificate stating that all their statements/documents submitted alongwith bid are true and factual. Standard format of certificate to be submitted by the bidder is enclosed as Annexure-V. In addition to Annexure-V, in case of other than Company/Proprietary firm. Annexure-V (A) shall also be submitted by the each member of a Partnership Firm / Joint Venture (JV) / Hindu Undivided Family (HUF) / Limited Liability Partnership (LLP) etc, as the case may be. Non submission of above certificate(s) by the bidder shall result in summarily rejection of his/their bid. It shall be mandatorily incumbent upon the tenderer to identify , state and submit the supporting documents duly self attested/digitally signed by which they/he is qualifying the Qualifying Criteria mentioned in the Tender Document. (D) Valid electrical contractor's license issued by the State Government / Central Government. (E) Valid supervisory license issued by the State Government / Central Government. (F) There should be bond agreement with the Supervisor showing employability with the Firm. (G) The tenderers shall submit a copy of Tender Form (First Sheet) along with bid. (Standard format of certificate to be submitted by the bidder is enclosed as Annexure-I in GCC/2022 for works). (H) The tenderers shall submit a copy of PAN and GST Registration Certificate. (I) Others mandatory documents	No	No	Not Allowed

6. Documents attached with tender

S.No.	Document Name	Document Description
1	GCCApril-2022PDFwithcorrectionSlip-compressed.pdf	GCC 2022
2	SimilarnatureofworkSolar.pdf	HQ letter for additional clause
3	STcableAttachedforalltender.pdf	HQ letters for Signal Cable
4	NITSolarGridconnectedPhase-2.pdf	Tender Paper

**KATIHAR DIVISION-ELECTRICAL/N F RLY
TENDER DOCUMENT**

Tender No: 18_2024

Closing Date/Time: 09/12/2024 15:00

5	SolarPhase2.pdf	Tender Schedule with Spl Conditions
---	-----------------	-------------------------------------

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: SUJOY SAHA ROY

Designation : Sr.DEE/G and CHG/KIR