

**NFR HQ-ELECTRICAL/N F RLY  
TENDER DOCUMENT**

**Tender No:** DYCEE-PS-MLG-HQ-35-24-25

**Closing Date/Time:** 06/12/2024 15:00

**CEE/NFR** acting for and on behalf of The President of India invites E-Tenders against Tender No **DYCEE-PS-MLG-HQ-35-24-25** Closing Date/Time 06/12/2024 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**

<b>Name of Work</b>	At MLG (HQ) Division -(Part A) Provision of 1733 KWp Grid connected rooftop Solar Power plant including 5 years AMC/CAMC at rooftop of Service building & residential buildings in Goshala & Nambari Area.		
<b>Bidding type</b>	Normal Tender		
<b>Tender Type</b>	Open	<b>Bidding System</b>	Single Packet System
<b>Tender Closing Date Time</b>	06/12/2024 15:00	<b>Date Time Of Uploading Tender</b>	14/11/2024 13:20
<b>Pre-Bid Conference Required</b>	No	<b>Pre-Bid Conference Date Time</b>	Not Applicable
<b>Advertised Value</b>	92177460.92	<b>Tendering Section</b>	TENDER
<b>Bidding Style</b>	Single Rate for Tender	<b>Bidding Unit</b>	Above/Below/Par
<b>Earnest Money (Rs.)</b>	610900.00	<b>Validity of Offer ( Days)</b>	90
<b>Tender Doc. Cost (Rs.)</b>	0.00	<b>Period of Completion</b>	180 Days
<b>Contract Type</b>	Works	<b>Contract Category</b>	Expenditure
<b>Bidding Start Date</b>	22/11/2024	<b>Are Joint Venture (JV) firms allowed to bid</b>	No
<b>Ranking Order For Bids</b>	Lowest to Highest	<b>Expenditure Type</b>	Solarization of Rooftop

**2. SCHEDULE**

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
<b>Schedule A-At MLG (HQ) Sub-Division -(Part A) Provision of 1733 KWp Grid connected rooftop Solar Power plant including 5 years AMC/CAMC at rooftop of Service buildings &amp; residential buildings in Goshala &amp; Nambari Area.</b>							92177460.92	
1	Please see Item Breakup for details.				21726819.00	AT Par	21726819.00	
<b>Description:-</b> Part A : (I) At Goshala & Nambari area various service building								
2	Please see Item Breakup for details.				70450641.92	AT Par	70450641.92	
<b>Description:-</b> Part A : (II) At Goshala & Nambari area Residential Building								

**3. ITEM BREAKUP**

<b>Schedule</b>	Schedule A-At MLG (HQ) Sub-Division -(Part A) Provision of 1733 KWp Grid connected rooftop Solar Power plant including 5 years AMC/CAMC at rooftop of Service buildings & residential buildings in Goshala & Nambari Area.							
<b>Item- 1</b>	Part A : (I) At Goshala & Nambari area various service building							
S No.	Item No	Description of Item			Unit	Qty	Rate	Amount

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1	1	<p>Design and supply of On-Grid connected Solar Photo Voltaic (PV) Plant without battery backup complete with the following items : a) Supply of 545 Wp or above solar SPV Module IEC Certified Mono crystalline Cell; IEC: 61215/IS14286, Each PV module must use a RF identification tag (RFID); (Quantity may be adjusted according to the rating SPV module used). Warranty of module should be 25 years. b) On grid solar PCU/Inverter (three phase unit) with inbuilt LED display of appropriate capacity; Qty: suitable Nos. c) ACDB, PCDB, DC protection unit, AC protection unit, earthing, Lighting Arrestor, wires/cables, cable tray, connectors and all other accessories. d) Hot dipped galvanized iron Panel mounting structure e) Data Logger, with provision for data transferring ( RS-485, Wifi, GPRS, RF ) to remote service platform for data storage and analysis displayed in various visual and graphical formats on Web-App &amp; big screen display with 5 Years Standard Warranty. f) Fire resistant DC Cables and Fire resistant AC cables of suitable size ( in sq.mm ) and length including dressing / laying of cable through suitable size GI covered cable tray / through HDPE Pipe / underground by Micro tunnelling method / through GI pipe as per site requirement for connecting panels, array Junction box and solar inverter system, ACDB, GIP etc. including all other accessories such as monkey ladder for maintenance access to roof (if required), lightning arrester, suitable earthing arrangement along with installation, testing and commissioning of above Solar Photo Voltaic Modules on roof top of different service buildings, Shed top of Station Building &amp; Platform, etc with all associated works. (The total quantity shall be installed in distributed manner having plant between &gt;100KWp- Upto 500KWp) Note:- Operation &amp; maintenance of 05 (Five)years including replacement of all parts cover under the guarantee, providing tools &amp; tackles required for maintenance purpose along with required spare parts etc. shall be the part of the contract for period of 05 (five) years from date of commissioning (as per MNRE guidelines)</p>	KWp	150.00	46571.00	6985650.00
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2	2	Design and supply of On-Grid connected Solar Photo Voltaic (PV) Plant without battery backup complete with the following items: a) Supply of 545 Wp or above solar SPV Module IEC Certified Mono crystalline Cell; IEC: 61215/IS14286, Each PV module must use a RF identification tag (RFID); (Quantity may be adjusted according to the rating SPV module used). Warranty of module should be 25 years. b) On grid solar PCU/Inverter (three phase unit) with inbuilt LED display of appropriate capacity; Qty: suitable Nos. c) ACDB, PCDB, DC protection unit, AC protection unit, earthing, Lighting Arrestor, wires/cables, cable tray, connectors and all other accessories. d) Hot dipped galvanized iron Panel mounting structure e) Data Logger, with provision for data transferring ( RS-485, Wifi, GPRS, RF ) to remote service platform for data storage and analysis displayed in various visual and grafical formats on Web-App & big screen display with 5 Years Standard Warranty. f) Fire resistant DC Cables and Fire resistant AC cables of suitable size ( in sq.mm ) and length including dressing / laying of cable through suitable size GI covered cable tray / through HDPE Pipe / underground by Micro tunnelling method / through GI pipe as per site requirement for connecting panels, array Junction box and solar inverter system, ACDB, GIP etc. including all other accessories such as monkey ladder for maintenance access to roof (if required), lightning arrester, suitable earthing arrangement along with installation, testing and commissioning of above Solar Photo Voltaic Modules on roof top of different service buildings, Shed top of Station Building & Platform, etc with all associated works. (The total quantity shall be installed in distributed manner having plant between >10KWp- upto 100KWp) Note:- Operation & maintenance of 05 (Five)years including replacement of all parts shall be covered under the guarantee, providing tools & tackles required for maintenance purpose along with required spare parts etc shall be the part of the contract for period of 05 (five) years from date of commissioning (as per MNRE guidelines)	KWp	278.00	49626.00	13796028.00
3	3	Supply, installation, testing and commissioning of steel structure (made of ISMB steel, steel grade: FE-415) for additional mounting arrangement for installation of plated with south facing & painted with one coat of Red-oxide paint and two coats of aluminum paint) including erection of columns, truss and all other required civil work/mechanical work of foundation for mounting of solar panels and shed for ACDB panels, and any other items or accessories such as galvanized nuts & bolts, weather proof gasket etc. required for successful commissioning of Power Plant on "Single Responsibility" basis as per instructions given by Railway Site Engineer.	Kg	2200.00	214.00	470800.00
4	4	Supply, erection of earthing set by Class "A" 50 mm Dia GI pipe 3 Mts. long including construction of earth pit with cover and earth continuity by (25x3)mm GI strip , GI nuts and bolts etc. as per direction at site Engineer. Drg ref no PCEE/ELG/DRG/2024/1 dated. 30.09.24	Set	24.00	2218.00	53232.00
5	5	Supply, erection of 40x6 mm GI strip for earth mat as per direction of site Engineer in-charge of railway.	Metre	1400.00	54.00	75600.00

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6	6	Supply, installation, testing and commissioning of floor/ pedestal mounted Indoor type(IP42) single door enclosure , modular in construction made of suitable size, using CRCA Sheet Steel of 2mm thickness and are Epoxy powder coating having provision of cable alley in both sides with spreader link have heat shrinkable coloured PVC sleeve having 400A 4P Cu Busbar as per requirement and direction of site engineer in-charge.	Set	1.00	56639.00	56639.00
7	7	Supply, installation, testing and commissioning of floor/ pedestal mounted Indoor type(IP42) single door enclosure , modular in construction made of suitable size, using CRCA Sheet Steel of 2mm thickness and are Epoxy powder coating having provision of cable alley in both sides with spreader link have heat shrinkable coloured PVC sleeve having 200A 4P Cu Busbar as per requirement and direction of site engineer in-charge.	Set	2.00	20685.00	41370.00
8	8	Supply, installation and commissioning of Spike Lightning Arrestor with a metal rod made of copper with minimum 25.2 mm diameter and 1445 mm in length with 5 spikes and base plate 8.5x8.5 cm for Home and Building Protection Coverage of 45 degrees from the top point 4.85 m and earthing with 80 mm dia 4 mtr GI pipe. The arrestor has to be grounded through GI strip of 40x05 mm size isolated way from roof top to ground earthing for used as part of lightning safety to protect tall or isolated structures from lightning damage as per direction of site engineer incharge of Railway.	Set	9.00	27500.00	247500.00
					<b>Total</b>	<b>21726819.00</b>
<b>Item- 2</b>	Part A : (II) At Goshala &Nambari area Residential Building					
<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>

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2	2	<p>Design and supply of On-Grid connected Solar Photo Voltaic (PV) Plant without battery backup complete with the following items: a) Supply of 545 Wp or above solar SPV Module IEC Certified Mono crystalline Cell; IEC: 61215/IS14286, Each PV module must use a RF identification tag (RFID); (Quantity may be adjusted according to the rating SPV module used). Warranty of module should be 25 years. b) On grid solar PCU/Inverter (three phase unit) with inbuilt LED display of appropriate capacity; Qty: suitable Nos. c) ACDB, PCDB, DC protection unit, AC protection unit, earthing, Lighting Arrestor, wires/cables, cable tray, connectors and all other accessories. d) Hot dipped galvanized iron Panel mounting structure e) Data Logger, with provision for data transferring ( RS-485, Wifi, GPRS, RF ) to remote service platform for data storage and analysis displayed in various visual and graphical formats on Web-App &amp; big screen display with 5 Years Standard Warranty. f) Fire resistant DC Cables and Fire resistant AC cables of suitable size ( in sq.mm ) and length including dressing / laying of cable through suitable size GI covered cable tray / through HDPE Pipe / underground by Micro tunnelling method / through GI pipe as per site requirement for connecting panels, array Junction box and solar inverter system, ACDB, GIP etc. including all other accessories such as monkey ladder for maintenance access to roof (if required), lightning arrester, suitable earthing arrangement along with installation, testing and commissioning of above Solar Photo Voltaic Modules on roof top of different service buildings, Shed top of Station Building &amp; Platform, etc with all associated works. (The total quantity shall be installed in distributed manner having plant between &gt;3KWp- upto 10KWp) Note:- Operation &amp; maintenance of 05 (Five)years including replacement of all parts shall be covered under the guarantee, providing tools &amp; tackles required for maintenance purpose along with required spare parts etc shall be the part of the contract for period of 05 (five) years from date of commissioning (as per MNRE guidelines)</p>	KWp	561.00	53203.00	29846883.00
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3	3	Design and supply of On-Grid connected Solar Photo Voltaic (PV) Plant without battery backup complete with the following items: a) Supply of 545 Wp or above solar SPV Module IEC Certified Mono crystalline Cell; IEC: 61215/IS14286, Each PV module must use a RF identification tag (RFID); (Quantity may be adjusted according to the rating SPV module used). Warranty of module should be 25 years. b) On grid solar PCU/Inverter (three phase unit) with inbuilt LED display of appropriate capacity; Qty: suitable Nos. c) ACDB, PCDB, DC protection unit, AC protection unit, earthing, Lighting Arrestor, wires/cables, cable tray, connectors and all other accessories. d) Hot dipped galvanized iron Panel mounting structure e) Data Logger, with provision for data transferring ( RS-485, Wifi, GPRS, RF ) to remote service platform for data storage and analysis displayed in various visual and graphical formats on Web-App & big screen display with 5 Years Standard Warranty. f) Fire resistant DC Cables and Fire resistant AC cables of suitable size ( in sq.mm ) and length including dressing / laying of cable through suitable size GI covered cable tray / through HDPE Pipe / underground by Micro tunnelling method / through GI pipe as per site requirement for connecting panels, array Junction box and solar inverter system, ACDB, GIP etc. including all other accessories such as monkey ladder for maintenance access to roof (if required), lightning arrester, suitable earthing arrangement along with installation, testing and commissioning of above Solar Photo Voltaic Modules on roof top of different service buildings, Shed top of Station Building & Platform, etc with all associated works. (The total quantity shall be installed in distributed manner having plant between >1KWp- upto 2KWp) Note:- Operation & maintenance of 05 (Five)years including replacement of all parts shall be covered under the guarantee, providing tools & tackles required for maintenance purpose along with required spare parts etc shall be the part of the contract for period of 05 (five) years from date of commissioning (as per MNRE guidelines)	KWp	36.00	60971.00	2194956.00
4	4	Supply, installation, testing and commissioning of steel structure (made of ISMB steel, steel grade: FE-415) for additional mounting arrangement for installation of plated with south facing & painted with one coat of Red-oxide paint and two coats of aluminum paint) including erection of columns, truss and all other required civil work/mechanical work of foundation for mounting of solar panels and shed for ACDB panels, and any other items or accessories such as galvanized nuts & bolts, weather proof gasket etc required for successful commissioning of Power Plant on "Single Responsibility" basis as per instructions given by Railway Site Engineer.	Kg	1450.00	214.00	310300.00
5	5	Supply, installation, and laying of G.I. pipe (medium class) of 50 mm (ID) with all necessary accessories as per requirement at site.	Metre	300.00	646.00	193800.00
6	6	Supply, erection of earthing set by Class "A" 50 mm Dia GI pipe 3 Mts. long including construction of earth pit with cover and earth continuity by (25x3)mm GI strip , GI nuts and bolts etc. as per direction at site Engineer. Drg ref no PCEE/ELG/DRG/2024/1 dated. 30.09.24	Set	125.00	2218.00	277250.00

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7	7	Supply, erection of 40x6 mm GI strip for earth mat as per direction of site Engineer in-charge of railway.	Metre	2000.00	54.00	108000.00
8	8	Supply and wiring of main line by 2x10 sq. mm. PVC insulated unsheathed and multi-stranded FRLS Copper Cable confirming to IS 694/1990 through suitable size of PVC casing capping with earth continuity by copper wire of 1 sq. mm.	RM	2200.00	180.00	396000.00
9	9	Supply, installation, testing and commissioning of floor/ pedestal mounted Indoor type (IP42) single door enclosure, modular in construction made of suitable size, using CRCA Sheet Steel of 2mm thickness and are Epoxy powder coating having provision of cable alley in both sides with spreader link have heat shrinkable coloured PVC sleeve having 100A 4P Cu Busbar as per requirement and direction of site engineer in-charge.	Set	112.00	12771.00	1430352.00
10	10	Supply, installation and commissioning of Spike Lightning Arrestor is a metal rod, made of copper with minimum 25.2 mm diameter and 1445 mm in length with 5 spikes and base plate 8.5x8.5 cm for Home and Building Protection Coverage of 45 degrees from the top point 4.85 m and earthing with 80 mm dia 4 mtr GI pipe. The arrestor has to be grounded through GI strip of 40x05 mm size isolated way from roof top to ground earthing for used as part of lightning safety to protect tall or isolated structures from lightning damage as per direction of site engineer in charge of Railway.	Set	9.00	27500.00	247500.00
11	11	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water Supply including all CPVC plain & brass threaded fittings. This includes jointing of pipes, tape/vulve& fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge : External work 20 mm nominal outer dia. Pipes. DSOR :18.9.2	Metre	420.00	330.49	138805.80
12	12	Providing & fixing at all heights, levels and locations colour finish Aluminium alloy roofing sheets of alloy IS designation 31500, temper Hx8 conforming to IS 737 and dimensions as per IS code 2676 with characteristics of good formability and corrosion resistance. Theprofile sheets shall be fixed to truss members in slope or requiredpitch or curvature with Hex cap headed self drilling/tapping Stainless steel screws M6, 50 mm long with 3 mm EPDM seal washer etc. all inclusive of labour, scaffolding, T&P and sundries etc. complete asper directions of the Engineer-In-Charge. (Cost of truss/frame workshall be paid separately). 0.56 mm, Aluminium Color coated troughed profile with center to center pitch of 200 mm, depth of 32 mm, overall profile width1092 mm, cover width 1000mm. DSOR : 12.65.1	Sqm	142.00	1208.36	171587.12
					<b>Total</b>	<b>70450641.92</b>

**4. ELIGIBILITY CONDITIONS**

**Special Financial Criteria**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
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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	No	No	Allowed (Mandatory)
2	The tenderer are advised to submit the Bid Security 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 conditions of tender. 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 90 days beyond the bid validity period	No	No	Allowed (Mandatory)
3	Any firm recognized by Department of Industrial Policy and Promotion (DIPP) as 'Startups' shall be exempted from payment of Bid Security detailed above. 2. Labour Cooperative Societies shall submit only 50% of above Bid Security detailed above.	No	No	Allowed (Mandatory)
4	Tenderer should submit their bank account no., name of the bank and bank specific code no. in separate sheet , Current valid GST registration no. and PAN CARD.	No	No	Allowed (Mandatory)

**Special Technical Criteria**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	(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: (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&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.	No	No	Allowed (Mandatory)

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2	<p>However, if required in tender documents by way of Special Conditions, a formal agreement duly notarised, 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 fulfilment 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. Note: for subletting of work costing up to Rs 50 lakh, no previous work experience of subcontractor shall be asked for by the Railway. In case after award of contract or during execution of work it becomes necessary for contractor to change subcontractor, the same shall be done with subcontractor(s) fulfilling the requirements as per clause 7 of the Standard General Conditions of Contract, with prior approval of Chief Engineer in writing.</p>	No	No	Allowed (Mandatory)
3	<p>Work experience certificate from private individual shall not be considered. However, in addition to work experience certificates issued by any Govt. Organisation, work experience certificate issued by Public listed company having average annual turnover of Rs 500 crore and above in last 3 financial years excluding the current financial year, listed on National Stock Exchange or Bombay Stock Exchange, incorporated/registered at least 5 years prior to the date of closing of tender, shall also be considered provided the work experience certificate has been issued by a person authorized by the Public listed company to issue such certificates. In case tenderer submits work experience certificate issued by public listed company, the tenderer shall also submit along with work experience certificate, the relevant copy of work order, bill of quantities, bill wise details of payment received duly certified by Chartered Accountant, TDS certificates for all payments received and copy of final/last bill paid by company in support of above work experience certificate.</p>	No	No	Allowed (Mandatory)
4	<p>Similar works for the above tender shall be:- Supply, installation, testing &amp; 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. "Where 30% rating of total work capacity = 519.9 KWp."</p>	No	No	Allowed (Mandatory)
5	<p>Other eligibility criteria a) Service Centre set-up (for the tenders of 1 MW &amp; above Solar plant capacity only) The Tenderers must have their local service center set-up at Katihar, New-Jalpaiguri or Siliguri, NewCoochbehar or New-Alipurduar, New-Bongaigaon, Guwahati, Dibrugarh or Tinsukia or Jorhat, Agartala or Silchar along with trained technicians for attending service requests of Solar power plants fully equipped with maintenance spares, tools &amp; 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). b) Manufacturers and Models 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.</p>	No	No	Allowed (Mandatory)

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6	<p>Additional Clauses / Conditions (i) Maintenance: The Solar Power Plant 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. (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 - 12,26,400 kWh ] X Rs. 0.25/kWh = Rs. 21,900/- For above purpose, daily Solar generation has to be recorded. (iii) Web Based Smart Monitoring facility: The successful Tenderer must have to install hardware &amp; 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 &amp; 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. (iv) Cleaning of PV module: A permanent cleaning 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 (v) Easy accessibility to rooftop: The successful Tenderer shall have to provide, wherever necessary, a suitable metallic structure/ladder for easy &amp; 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. (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.</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.
3	I/we hereby declare that I/we have downloaded the tender documents from Indian Railway website <a href="http://www.ireps.gov.in">www.ireps.gov.in</a> . 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.

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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**

**Check Lst**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Whether cost of Bid Security deposited.	No	No	Not Allowed
2	Whether the bank account no., name of the bank and bank specific code no. in separate sheet submitted	No	No	Not Allowed
3	Whether PAN Card details submitted in separate sheet	No	No	Not Allowed
4	Whether valid electrical contractor licence and valid supervisor's licence submitted along with valid engagement details.	No	No	Not Allowed
5	Whether GSTIN number along with other necessary documents under GST Act (which is implemented w.e.f 01- 07- 17) submitted in separate sheet.	No	No	Not Allowed
6	Whether document relevant to 1)Any firm recognized by Department of Industrial Policy and Promotion (DIPP) as 'Startups' certificate submitted in case of exemption from payment of earnest money deposit. 2) Labour Cooperative Societies certificate submitted in case of deposition of only 50% of Bid Security	No	No	Not Allowed
7	Whether Document verification certificate (Annexure V) and Annexure V(A) is submitted as the case may be	No	No	Not Allowed

**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	i)The Tenderer is hereby advised to study the tender document in www.ireps.gov.in portal carefully and may also ascertain the nature quantum of work and working condition before submission of his offer. (ii) The submission of the tender will be deemed to imply that this memorandum and all documents enclosed have been studied and understood and that the Tenderer is aware of the full scope of the work to be done.	No	No	Not Allowed

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2	<p>Drawings for the Work: The Drawing for the work can be seen in the office of the Chief Electrical Engineer or Dy CEE/PS/MLG/HQ office or any other authority assigned by competent authority, NF Railway at any time during the office hours. The drawings are only for the guidance of Tenderer(s). Detailed working drawings (if required) based generally on the drawing mentioned above, will be given by the Engineer or his representative from time to time. 3. The Tenderer(s) shall quote his / their rates as a percentage above or below the Schedule of Rates of NF Railway as applicable to HQ except where he/they are required to quote item rates and must tender for all the items shown in the Schedule of approximate quantities attached. The quantities shown in the attached Schedule are given as a guide and are approximate only and are subject to variation according to the needs of the Railway. The Railway does not guarantee work under each item of the Schedule. The tenderer(s) shall quote rates / rebates only at specified place in Tender Form supplied by Railway. Any revision of rates / rebates submitted (quoted) through a separate letter whether enclosed with the bid (Tender Form) or submitted separately or mentioned elsewhere in the document other than specified place shall be summarily ignored and will not be considered. 4. Tenders containing erasures and / or alterations of tender documents are liable to be rejected. Any correction made by tender(s) in his/their entries must be attested by him / them. 5. The works are required to be completed within a period of 90 days from the date of issue of acceptance letter.</p>	No	No	Not Allowed
3	<p>The tenderer are advised to submit the Bid Security of Rs. 610900.00 for this instant tender. 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 90 days beyond the bid validity period. Any firm recognized by Department of Industrial Policy and Promotion (DIPP) as 'Startups' shall be exempted from payment of Bid Security detailed above. Labour Cooperative Societies shall submit only 50% of above Bid Security detailed above.</p>	No	No	Not Allowed
4	<p>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 SSE/Tender/Guwahati in the office of Senior Divisional Electrical Engineer, Guwahati before closing date for submission of bids. ( i.e. excluded the last date 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.</p>	No	No	Not Allowed

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5	The tenderers shall submit a copy of certificate stating that all their statements/documents submitted along with bid are true and factual. Standard format of certificate to be submitted by the bidder is enclosed as Annexure-V. In case of other than Company/ Proprietary firm, Annexure- V(A) shall also be submitted by 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.	No	No	Not Allowed
6	The Tenderer(s) shall keep the offer open for a minimum period of 60 days from the date of closing of the Tender. It is understood that the tender documents have been issued to the Tenderer(s) and the Tenderer(s), is / are permitted to tender in consideration of the stipulation on his / their part that after submitting his / their tender subject to the period being extended further, if required by mutual agreement from time to time, he will not resile from his offer or modify the terms and conditions thereof in a manner not acceptable to _____ Railway. Should the tenderer fail to observe or comply with the foregoing stipulation, the amount deposited or Bank guarantee bond submitted as Bid Security for the due performance of the above stipulation, shall be forfeited to the Railway.	No	No	Not Allowed
7	Compliance with the GST Act, 2017 under Clause No.6 of GCC-2022 (Care In Submission of Tenders :)(a) (i) Before submitting a tender, the tenderer will be deemed to have satisfied himself by actual inspection of the site and locality of the works, that all conditions liable to be encountered during the execution of the works are taken into account and that the rates he enters in the tender forms are adequate and all inclusive to accord with the provisions in Clause-37 of the Standard General Conditions of Contract for the completion of works to the entire satisfaction of the Engineer. (a)(ii) Tenderers will examine the various provisions of The Central Goods and Services Tax Act, 2017(CGST)/ Integrated Goods and Services Tax Act, 2017(IGST)/ Union Territory Goods and Services Tax Act, 2017(UTGST)/ respective state's State Goods and Services Tax Act (SGST) also, as notified by Central/State Govt.& as amended from time to time and applicable taxes before bidding. Tenderers will ensure that full benefit of Input Tax Credit (ITC) likely to be availed by them is duly considered while quoting rates. (a)(iii) The successful tenderer who is liable to be registered under CGST/IGST/UTGST/SGST Act shall submit GSTIN along with other details required under CGST/IGST/UTGST/SGST Act to railway immediately after the award of contract, without which no payment shall be released to the Contractor. The Contractor shall be responsible for deposition of applicable GST to the concerned authority. (a)(iv) In case the successful tenderer is not liable to be registered under CGST/IGST/UTGST/SGST Act, the railway shall deduct the applicable GST from his/their bills under reverse charge mechanism (RCM) and deposit the same to the concerned authority. (b) When work is tendered for by a firm or company, the tender shall be signed by the individual legally authorized to enter into commitments on their behalf. (c) The Railway will not be bound by any power of attorney granted by the tenderer or by changes in the composition of the firm made subsequent to the execution of the contract. It may, however, recognize such power of attorney and changes after obtaining proper legal advice, the cost of which will be chargeable to the Contractor.	No	No	Not Allowed

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8	Documents to be Submitted Along with Tender (i)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. Documents that shall be submitted in case of(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) will be as mentioned in the tender document.	No	No	Not Allowed
9	Security Deposit: The Security Deposit shall be 5% of the contract value. The Bid Security submitted by the Contractor with his tender will be retained/encashed by the Railways as part of security for the due and faithful fulfillment of the contract by the Contractor. Provided further that, if Contractor submits the Cash or Term Deposit Receipt issued from a Scheduled commercial bank of India or irrevocable Bank Guarantee Bond from a Scheduled commercial bank of India, either towards the Full Security Depositor the Part Security Deposit equal to or more than Bid Security, the Railway shall return the Bid Security, to the Contractor. Balance of Security Deposit may be deposited by the Contractor in cash or Term Deposit Receipt issued from Scheduled commercial bank of India or irrevocable Bank Guarantee bond issued from Scheduled commercial bank of India, or may be recovered at the rate of 6% of the bill amount till the full Security Deposit is recovered. Provided also that in case of defaulting Contractor, the Railway may retain any amount due for payment to the Contractor on the pending "on account bills" so that the amounts so retained (including amount guaranteed through Performance Guarantee) may not exceed 10% of the total value of the contract. The Irrevocable Bank Guarantee submitted towards Security deposit shall be initially valid up to the stipulated date of Maintenance period plus 60 days and shall be extended from time to time, depending upon extension of contract granted in terms of Clause 17A and 17B of the Standard General Conditions of Contract. Note: Security Deposit deposited in cash by the Contractor or recovered from the running bills of a Contractor or submitted by contractor as Term Deposit Receipt(s) can be refunded/returned to the contractor, in lieu of irrevocable Bank Guarantee bond issued from scheduled commercial bank of India, to be submitted by him, for an amount equal to or more than the already available Security Deposit, provided however that, in a contract of value less than Rs. 50 Crore, such refund/ return of the already available Security Deposit is permitted up to two times and in a contract of value equal to or more than Rs. 50 Crore, such refund / return of the already available Security Deposit is permitted up to three times.	No	No	Not Allowed
10	Refund of Security Deposit: Security Deposit mentioned in sub clause (1) above shall be returned to the Contractor along with or after, the following: (a) Final Payment of the Contract as per clause 51.(1) and (b) Execution of Final Supplementary Agreement or Certification by Engineer that Railway has No Claim on Contractor and (c) Maintenance Certificate issued, on expiry of the maintenance period as per clause 50.(1), in case applicable. 16. (2) (ii) Forfeiture of Security Deposit: Whenever the contract is rescinded as a whole under clause 62 (1) of these conditions, the Security Deposit already with railways under the contract shall be forfeited. However, in case the contract is rescinded in part or parts under clause 62 (1) of these conditions, the Security Deposit shall not be forfeited. 16.(3) No interest shall be payable upon the Bid Security and Security Deposit or amounts payable to the Contractor under the Contract, but Government Securities deposited in terms of SubClause 16.(4) (b) of this clause will be payable with interest accrued thereon.	No	No	Not Allowed

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11	<p>Performance Guarantee The procedure for obtaining Performance Guarantee is outlined below: (a) 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. (b) 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;</p>	No	No	Not Allowed
12	<p>(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&amp;CAO (free from any encumbrance) may be accepted. (c) 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. (d) 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. (e) 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. (f) Whenever the contract is rescinded, the Performance Guarantee already submitted for the contract shall be encashed. (g) The Engineer shall not make a claim under the Performance Guarantee except for amounts to which the President of India is entitled under the contract (not withstanding and/or without prejudice to any other provisions in the contract agreement) in the event of: (i) Failure by the Contractor to extend the validity of the Performance Guarantee as described herein above, in which event the Engineer may claim the full amount of the Performance Guarantee. (ii) Failure by the Contractor to pay President of India any amount due, either as agreed by the Contractor or determined under any of the Clauses/Conditions of the Agreement, within 30 days of the service of notice to this effect by Engineer. (iii) The Contract being determined or rescinded under clause 62 of these conditions</p>	No	No	Not Allowed



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13	Force Majeure Clause: If at any time, during the continuance of this contract, the performance in whole or in part by either party of any obligation under this contract shall be prevented or delayed by reason of any war, hostility, acts of public enemy, civil commotion, sabotage, serious loss or damage by fire, explosions, epidemics/pandemics, strikes, lockouts or acts of God (hereinafter, referred to events) provided, notice of the happening of any such event is given by either party to the other within 30 days from the date of occurrence thereof, neither party shall by reason of such event, be entitled to terminate this contract nor shall either party have any claim for damages against the other in respect of such non-performance or delay in performance, and works under the contract shall be resumed as soon as practicable after such event has come to an end or ceased to exist, and the decision of the Engineer as to whether the works have been so resumed or 50 shall be final and conclusive, PROVIDED FURTHER that if the performance in whole or in part of any obligation under this contract is prevented or delayed by reason of any such event for a period exceeding 120 days, either party may at its option terminate the contract by giving notice to the other party.	No	No	Not Allowed
14	New tax structure is applicable as per GST Act, implemented w.e.f 01.07.2017	No	No	Not Allowed

**Special Conditions**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	1.All materials which will be utilized for this work shall conform to relevant IS. 2.All the materials should be got approved from Dy.CEE/PS/MLG or his/her authorized representative should be contacted before execution of the work. 3.The successful tenderer shall prepare design of the solar power plant and submit detailed drawings and electrical power/control circuit for approval before execution of the work. 4.Before execution of the work, Contractor or his representative should contact Railway's Engineer in-charge. 5.Solar panel should be Monocrystalline Cell of Make: MNRE Approved source. 6.The successful bidder shall be required to meet a minimum guaranteed generation of 15% CUF 7.Grid tied Solar inverter with RMS should be Havells, Fronius, SMA or equivalent with minimum IP-65 Protection with RMS facilities. 8.The contractor should provide five years warranty as well as maintenance of all the assets of the solar power plant. 9.The firm should paint C.A.No. and Date on each major executed items at a distinct spot. 10.The Solar Power Plant 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. 11.The panel board drawing to be got approved by the Dy.CEE/PS/MLG/HQ or his/her authorized representative before execution of work. 12.The contractor(s) have to supply all petty stores, which may be required for successful commissioning of the equipments, but not mentioned in the Schedule of works. The rate quoted against each item shall be inclusive of those petty stores. 13.Dismantling of existing Old / defective assets if any to be cleared from proposed site free cost by the contractor. 14.Successful Tenderer shall produce & hand over test and Warrantee certificate issued by manufacturer/OEM of all the equipment to Railway. 15.All the conditions mentioned in Specification No. RDSO/PE/SPEC/PS/0092-2008 (Rev. '0') - Amdt 5 ; Draft Specification No. RDSO/PE/SPEC/PS/0092 (Rev. '1') - 2014 of GOVERNMENT OF INDIA MINISTRY OF RAILWAYS letter for GRID CONNECT SOLAR GENERATING SYSTEM OF CAPACITY 10 KWp to 500 KWp or the latest letter & specification of RDSO to be Followed. 16.Warranty period for CSS will be 2 years from the date of commissioning. Make of CSS will be ABB, SIEMENS,L&T.	No	No	Not Allowed

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2	<p>17. Materials used for construction of steel structure should be rust free; the rubber gaskets used in the structure should be weather proof. 18. Following make of the materials will be acceptable:-</p> <ul style="list-style-type: none"> <li>• Switchgears, Equipments &amp; enclosures should be HAVELLS, SIEMENS, BCH, INDOASIAN, ABB or higher quality.</li> <li>• Cables should be Havells, Finolex, KEI, Polycab, Richa or higher quality.</li> <li>• G.I. pipe/Angle /channel should be of TATA/ZINDAL/Hindustan/SAIL/TISCO or higher quality.</li> <li>• HDPE Pipe should be DURAGUARD DWC, AJA PLAS, SWASTIC or higher quality</li> <li>• HT termination kit, jointing kit should be RAYCHEM RPG, DENSONS, MS-SEAL, 3Mor higher quality.</li> <li>• Steel structure should be made of TATA, SAIL, TISCO or higher quality</li> <li>• PV Module (Monocrystalline) should be IEC certified Monocrystalline cell should be CEL, TATA, Power Solar or MNRE approved.</li> <li>• DC copper XLPE cable should be Havells, KEI, Finolex or higher quality.</li> <li>• Array Junction Box should be Hansel, HPL or higher quality.</li> <li>• Lightning Arrestor should be OBLUM, BHEL, ALSTHOM, RAYCHEM, ATLASELECTRICALS or higher quality.</li> </ul>	No	No	Not Allowed
3	<p>1) Design, detailed engineering, manufacturing, supply, installation, testing and commissioning of Grid Connected Solar PV Power Plant of the required capacities. Transportation, insurance, transit insurance, Taxes, required civil work/mechanical work for foundation etc., storage of materials, statutory clearance &amp; approval etc and any other items or accessories required for successful commissioning of Power Plant on "Single Responsibility" basis. In addition to the above, operation &amp; maintenance including replacement of all parts providing tools &amp; tackles required for maintenance (as an when required) shall be the part of the contract for the period of 05 (five) years from date of commissioning of Roof Top Based Solar PV Power Plant. Note: All works should be executed as per latest RDSO Specification/ Latest guidelines issued by Central Govt Agency/MNRE standard. 2) Site survey should be conducted by Company/Firm with SSE/Elect-in-charge &amp; SSE/Works-in-charge for choose of location and capacity of solar power plant. 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. 3) All the materials should be got approved by the officer In-charge at site and Dy.CEE/PS/MLG before execution of the work. 4) Guaranty/warranty against any manufacturing defects for any items supplied to be provided from the date of commissioning. 5 ) Material will bear ISI/MNRE Accreditation laboratory certificate. 6) There shall not be any deviation from Electrical drawing and specification without prior approval of Competent Authority.</p>	No	No	Not Allowed

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4	<p>7) All electrical works should comply with Indian Electricity Act 2003 and Indian Electricity Rules 1956. 8) After completion of installation and commissioning of the respective Solar PV Power plant complete system by the contractor, the maintenance of Solar power plant shall be provided for 5 consecutive years without any extra cost. 9) The operation &amp; maintenance of Solar Photovoltaic Power Plant would include wear, tear, overhauling ,machine breakdown, insurance, and replacement of defective modules, invertors / Power Conditioning Unit (PCU), spares, consumables &amp; other parts for a period of 5 years. 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&amp;M work, complaint logging &amp; its attending. 10) A bird spike shall be provided to avoid bird sitting on the solar modules at the highest point of the array/module structure. 11) 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. 12) 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 switch gear (MCB/Distribution Board) provided by the Bank for load and connecting up the system to the electrical grid surge protection units etc. as required. 13) 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. 14) The PV modules shall be installed with the necessary tilt with the most effective orientation. 15) All related &amp; required civil works will be the responsibility of successful tenderer. 16) Provision for periodic cleaning of the solar panels to be done twice in a year, considering the ambient conditions of the site.</p>	No	No	Not Allowed
5	<p>Supply of the recommended spare parts along with the main equipment's to avoid downtime duringGuaranty/Warranty and defect liability period. 18) Inspection of the complete installation at least once every year during guarantee/warranty period by the respective equipment manufacturer's specialist Engineer(s).31 19) Metering and grid connectivity of the roof top solar PV system under this scheme would be theresponsibility of the Bidder in accordance with the prevailing guidelines of the concerned DISCOM andor CEA. 20) Make of Items:- i) The system/ components/ items of the SPV power systems- RDSO / MNRE approved sources. 21) All the conditions mentioned in Specification No. RDSO/PE/SPEC/PS/0092-2008 (Rev.'0') - Amdt5; Draft Specification No. RDSO/PE/SPEC/PS/0092 (Rev. '1') - 2014 of GOVERNMENT OF INDIAMINISTRY OF RAILWAYS letter for GRID CONNECT SOLAR GENERATING SYSTEM OFCAPACITY 10 KWp to 500 KWp or the latest letter &amp; specification of RDSO should be followed.</p>	No	No	Not Allowed

**NFR HQ-ELECTRICAL/N F RLY  
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6	<p>22)PENALTY:- 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. Illustrative example for deduction of Liquidated Damages (LD) / penalty : If 1733kWp plant records 14% CUF during any financial year, the penalty will be levied as under: = [(kWh generation to meet 15% CUF) - (Total kWh generated having 14% CUF)] X Rs 0.25/kWh = <math>\frac{\{(15 \times 365 \times 24 \times 1733)\}}{100}</math> kWh - <math>\frac{\{(14 \times 365 \times 24 \times 1733)\}}{100}</math> kWh] x Rs. 0.25/kWh = [2277162kWh - 2125351.2kWh] X Rs. 0.25/kWh = Rs. 37952.70/- (For above purpose, daily Solar generation has to be recorded.) 1) The contractor should provide five years warranty and periodic maintenance service for the work from date of commissioning of the work. The P.G money and Security Deposit will be kept on hold by Railway till the completion of the AMC. 2) After commissioning and during maintenance period, if for any year, it is found that the agency has not been able to generate minimum energy corresponding to the lower limit of CUF i.e. 15%on account of any reasons not attributable to Railways or Force Majure events, such shortfall in performance shall make the agency liable to pay the compensation in the form of penalty. This will, however be relaxed by Railway to the extent of grid non- availability for execution, which is beyond the control of agency. The amount of such penalty will be 25% (Twenty Five Percent) of the cost of this shortfall in energy as per extant tariff rates and it will be deducted from the PG and SD amount withheld by Railways. This compensation shall be applied to the amount of shortfall during the year. However, this compensation shall not be applicable in events of Force Majeure events identified by Railway. 3) If the solar power plant operation goes to inactive mode fully or partially w.r.t. the solar plant capacity, then this inactive period will be carried forward. As such, the warranty and maintenance period will be extended proportionately. Note: - The contractor has to comply with the latest guidelines issued by the Railway Board with latest amendments from time to time.</p>	No	No	Not Allowed

**Undertakings**

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	I/We visited the works site and I/We am/are aware of the site condition.	No	No	Not Allowed
2	I/We have read the various conditions attached/referred to in this tender document and agree to abide by the said condition.	No	No	Not Allowed
3	I/We also hereby agree to abide by the Indian Railways Standard General Conditions of Contract 2022 with all correction slip upto date of closing of tender and to carry out the work according to the special conditions of contract and specification of materials and work as laid down by Railway in the attached special condition or specification, Schedule of rates with all correction slips upto date of closing of tender for the instant contract.	No	No	Not Allowed
4	I/We have downloaded and gone through all the attached documents carefully, thus have complied all the requisite information(s) and uploaded the relevant documents accordingly.	No	No	Not Allowed
5	I/We also hereby agree to abide by the terms and conditions of the GST act,2017.	No	No	Not Allowed

**6. Documents attached with tender**

S.No.	Document Name	Document Description
1	GCCApril2022.pdf	GCC april22
2	ANNEXURESUPDATEDAUG23UPTO4THCORRECTIONSLIP1.pdf	annexure
3	GCC2022advancecorrectionslip1.pdf	correction slip1
4	GCC2022advancecorrectionslip2.pdf	correction slip2

**NFR HQ-ELECTRICAL/N F RLY  
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5	GCC2022AdvanceCorrectionSlipNo_3.pdf	correction slip3
6	GCC2022AdvanceCorrectionSlipNo_4.pdf	correction slip4
7	GCC2022advancecorrectionslip5.pdf	correction slip5
8	Letterofcredit.pdf	Letter of Credit
9	TenderdocsolarGoshala-35.pdf	Tender Doc

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:** CHANDAN MAJUMDAR

**Designation :** Dy.CEE/PS/HQ