Govt. of Jharkhand
Energy Department
Jharkhand Renewable Energy Development Agency (JREDA)
3rd Floor, S.L.D.C. Building, Kusai Colony, Doranda, Ranchi-834002.
Ph.: 0651-2491161, Fax: 0651-2491165,
E-mail: info@jreda.com; Website: www.jreda.com

CORRIGENDUM-I

JREDA has invited Online Bids (e-tenders) NIB No. **14/JREDA/SPP/PAL/25-26** for "Request for Proposal (RFP) for Design, Engineering, Procurement, Construction (EPC), Supply, Installation, Testing & Commissioning with Comprehensive Operation & Maintenance of 09 MW (AC) Grid Connected Ground Mounted Solar Power Plant with Pile Foundation of Mounting Structure of Solar Power Plant in River Bed and Construction of Retaining Wall for Flood Protection for period of 25 years on Government Land at Palamu District of Jharkhand. from prospective. In light of Pre-bid queries and suggestions received from the prospective bidders, JREDA has decided to make the following amendments in this NIB No. **14/JREDA/SPP/PAL/25-26** as below:

<table>
<tr><th>Section / Appendix</th><th>Original Criteria</th><th>Read as/ Amendments/Addendums</th></tr>
<tr><td>Time Extension (e-Procurement Notice) (Page no-4)</td><td><table><tr><td>S.No</td><td colspan="2">Original</td></tr><tr><td>1</td><td>Last date & time for receipt of online bids</td><td>20.03.2026 (Friday) up to 05:00 PM</td></tr><tr><td>2</td><td>Submission of Bid fee and EMD through Online Via SBI Payment Gateway of Jharkhand Tenders</td><td>20.03.2026 (Friday) up to 05:00 PM</td></tr><tr><td>3</td><td>Technical Bid Opening Date</td><td>24.03.2026 (Tuesday) at 03:00 PM</td></tr></table></td><td><table><tr><td>S.No</td><td colspan="2">Read as/ Amendment</td></tr><tr><td>1</td><td>Last date & time for receipt of online bids</td><td>08.04.2026 (Wednesday) up to 05:00 PM</td></tr><tr><td>2</td><td>Submission of Bid fee and EMD through Online Via SBI Payment Gateway of Jharkhand Tenders</td><td>08.04.2026 (Wednesday) up to 05:00 PM</td></tr><tr><td>3</td><td>Technical Bid Opening Date</td><td>10.04.2026 (Friday) at 03:00 PM</td></tr></table></td></tr>
<tr><td>Name of RFP (e-Procurement Notice) (Page no-4)</td><td>Request for Proposal (RFP) for Design, Engineering, Procurement, Construction (EPC), Supply, Installation, Testing & Commissioning with Comprehensive Operation & Maintenance of 09 MW (AC) Grid Connected Ground Mounted Solar Power Plant, for a period of 25 years on Government Land at Palamu District of Jharkhand</td><td>Wherever in the document Name of RFP is mentioned, it shall be read as: -

Request for Proposal (RFP) for Design, Engineering, Procurement, Construction (EPC), Supply, Installation, Testing & Commissioning with Comprehensive Operation & Maintenance of 09 MW (AC) Grid Connected Ground Mounted Solar Power Plant with Pile</td></tr>
</table>

Section / Appendix	Original Criteria	Read as/ Amendments/Addendums
		Foundation of Mounting Structure of Solar Power Plant in River Bed and Construction of Retaining Wall for Flood Protection for period of 25 years on Government Land at Palamu District of Jharkhand. ***Note: The bidder should consider the changed name of RfP as mentioned above throughout the RfP document including all Format and Annexures.***
New Clause (**Addendums)**	Scope of work (Section 5), Clause 1.4- Page no- 60	***Addendum:*** ***1.4.v The Bidder shall design, supply, install, testing and commissioning of 9 MW (AC) Solar Power Plant, which shall be developed in two separate sections with independent transformer arrangements for power evacuation.*** • ***The first section shall consist of 5 MW (AC) ground-mounted solar power unit, whose inverter output shall be stepped up through a 7.5 MVA Solar Power Transformer with an output voltage of 33 kV.*** • ***The second section shall consist of 4 MW (AC) ground-mounted solar power unit, whose inverter output shall similarly be stepped up through a separate 7.5 MVA Solar Power Transformer with an output voltage of 33 kV.*** ***Both 7.5 MVA Solar Power Transformers two no (02 Nos.) will evacuate power at the 33 kV voltage level. The 33 kV output from each transformer shall be connected through dedicated feeders to two (02) numbers of 10 MVA Power Transformers installed at the Jharkhand Bijli Vitran Nigam Limited (JBVNL) owned 33/11 kV Power Substation. These transformers shall receive power at 33 kV on the incoming side and step it down to 11 kV on the outgoing side, which will then be integrated with the JBVNL distribution network for power evacuation.*** • ***The scope of work of Bidder will include all required metering systems, protection systems, switchgear, isolators, control panels,***

Section / Appendix	Original Criteria	Read as/ Amendments/Addendums

		SCADA System, cables, and associated electrical infrastructure, including complete electrical arrangements from the Solar Power Plant up to the Solar Power Transformers (2 × 7.5 MVA) and further up to the interconnection point at the JBVNL (2X10 MVA, 33/11 KV) substation, including all complete job ensuring safe and reliable power evacuation in JBVNL system.
		• ***The successful bidder shall develop a total 9 MW (AC) capacity in two sections to utilise maximum solar power radiation for efficient solar power generation, as outlined below:***
		  • ***Section–I: 5 MW (AC) Ground-Mounted Solar Unit connected to a 7.5 MVA Solar Power Transformer.***
		  • ***Section–II: 4 MW (AC) Ground-Mounted Solar Unit connected to a 7.5 MVA Solar Power Transformer.***
		The bidder shall design and implement the plant layout in a manner that ensures maximum energy generation, optimal land utilization, and high operational efficiency of the 9 MW (AC) Solar Power Plant. A Tentative Conceptual Layout for 9 MW Solar Power Plant is attached in the Annexure-10 for reference.
		
		• ***The bidder must construct a proper drainage system to avoid any kind of waterlogging or flood like situation at the plant site. The drainage system shall be developed considering the Geographical conditions of the site with a proper system to drain water.***
		• ***Bidder must construct control room building (minimum size - 150 $m^{2)}$ having one number control room hall in size 9.4X6.5 m^2 , four numbers of rooms, veranda, store room, and other necessary amenities as required in Solar Power Plant campus.***
		• ***In addition, the design parameters mentioned above for the control room building, the bidder shall construct security guard room near the main gate with all civic arrangements like toilet, washroom, restroom, etc., as and where required.***

Section / Appendix	Original Criteria	Read as/ Amendments/Addendums
New Clause (**Addendums)**	New Clause at Important Note to Bidders (Page No : 7)	12. ***The Bidder must visit the project site at Village Parta, Block.: Haidarnagar, Palamu and conduct necessary soil testing to assess Riverbed site conditions where water level below ground level is from 4ft to 5ft etc. Based on the findings of Riverbed Soil, the Bidder shall submit detailed schematic drawings for the pile foundation of the solar panel mounting structure proposed on Riverbed.*** ***Additionally, the Bidder shall submit the design drawing of the Retaining wall for flood protection, ensuring that all designs meet the required quality and safety standards. All submitted drawings shall clearly indicate the date of site visit and inspection along with photographs. The site location details are provided in this Bid Document.*** 13. ***The Bidder shall submit Certificate issued from Nationalised or Scheduled Commercial Bank (herein called Bank) operating in India and regulated by RBI, confirming the maximum eligible amount of BG that can be issued on behalf of bidder to JREDA with respect to the BG format as per Annexure 5A & 5B.*** ***The format of certificate must be as per Annexure 5 C.*** 14. BIDDERS QUOTING LOWER VALUE OF BID FROM THE ESTIMATED VALUE (BASE RATE) HAVE TO SUBMIT ADDITIONAL SECURTY DEPOSIT AS PER CLAUSE 6.2 IN ADDITION TO SECURITY DEPOSIT AS PER CLAUSE 6.1 AND ADDITIONAL PERFORMANCE SECURITY AS PER CLAUSE 7.2 IN ADDITION TO PERFORMANCE SECURITY AS PER CLAUSE 7.1 IN THE FORMAT AS PER ANNEXURE 5A & 5B RESPECTIVELY. 15. PRIOR APPROVAL OF JREDA MUST BE TAKEN FOR ALL DRAWING RELATED TO ANY ELECTRICAL & ASSOCIATED CIVIL WORK INCLUDING PILING FOUNDATION OF SOLAR PANEL MOUNTING STRUCTURE, CONSTRUCTION OF RETAINING WALL FOR FLOOD PROTECTION OF SOLAR POWER PLANT,

Section / Appendix	Original Criteria	Read as/ Amendments/Addendums
		CONSTRUCTION OF CABLE TRENCH, LAYING OF ELECTRICAL CABLE, INSTALLATION OF 02 NUMBERS of 7.5MVA POWER TRANSFORMERS IN TWO SECTION MEANT FOR EVACUATION OF SOLAR POWER – TECHNICAL SPECIFICATION, LAYOUT, COMMISSIONING ETC. THE WORK SHALL ONLY BE COMMENCED AFTER SUCH APPROVAL.
New Clause (**Addendums)**	SECTION-2: INSTRUCTIONS TO BIDDERS (ITB) 3. General Instruction (Page no- 22 & 23)	***3.20 The successful bidder must provide mobile phone, vehicle, safety kits and all other necessary items & services during construction and CMC period of 25 years.*** ***3.21 If the bidder quoted an unreasonable rate under this RFP, in that case JREDA reserves the right to cancel the bid. The bidder will not have any legal standing to challenge the JREDA's decision.*** ***3.22 The bidder shall obtain the Electrical License from the office of Electrical Inspectorate, Department of Energy, Govt. of Jharkhand within three (3) months from the award of work.*** ***3.23 The successful bidder must obtain prior approval from JREDA in case the bidder changes any documents, materials, and services*** or deviates from the plant construction or operation (during CMC period of 25 years) standards given in the RFP or the contract signed by the successful bidder with JREDA. ***3.24 The successful bidder must comply with the guidelines adopted by PWD, CPWD & MNRE or standards like BIS & ISI in case of deviating from standards prescribed in RFP and Contract.*** ***3.25 Any deviation from RFP or contract terms without prior approval of JREDA will be seen as a default in the successful bidder's case. And JREDA may take necessary action as it seems fit.***
Section-2: Instructions To Bidders (ITB) (Page no-20)	**About Project Site:** Jharkhand Renewable Energy Development Agency (JREDA) being a nodal agency for the state of Jharkhand;	**About Project Site:** Jharkhand Renewable Energy Development Agency (JREDA) being a nodal agency for the state of Jharkhand; invited interested

<table>
<tr><th>Section / Appendix</th><th>Original Criteria</th><th>Read as/ Amendments/Addendums</th></tr>
<tr><td></td><td>

invited interested parties to participate in this “RFP” for bidding and selection process for the appointment of Contractor for “Request for Proposal (RFP) for Design, Engineering, Procurement, Construction (EPC), Supply, Installation, Testing & Commissioning with Comprehensive Operation & Maintenance of 09 MW (AC) Grid Connected Ground Mounted Solar Power Plant, for a period of 25 years on Government Land at Palamu District of Jharkhand.” (the “Project”). The capacity 09 MW (AC) grid-connected Ground Mounted solar PV Project is to be developed at Parta Village, Palamu of Jharkhand state. Proposed sites are at Vill.: Parta, Circle: Haidarnager, Palamu District, Jharkhand. The latitude 24.5280661, and longitude, 83.9204249 is the geo co-ordinate of the village Parta site.

<table>
<tr><th>Locations</th><th>Land area in (Acre)</th><th>Capacity in (MW)</th><th>Co-ordinates of Locations</th><th>Respective JBVNL / JUSNL S/s with approximate distance from location.</th></tr>
<tr><td>Vill.: Parta, Block.: Haidarnagar, Dist.: Palamu</td><td>50</td><td>09 MW</td><td>Latitude: 24.5280661 Longitude: 83.9204249</td><td>JBVNL, 33/11 KV Deori S/s @ Approx. 05 – 07 KM</td></tr>
</table>

The above proposed site for the 9 MW ground-mounted solar power is situated near to Sone River’s riverbed area hence the land requires specialized design and engineering interventions for civil and structural works to ensure the plant’s longevity, structural stability, and sustainability over its operational life of 25 years. Additionally, the land

</td><td>

parties to participate in this “RFP” for bidding and selection process for the appointment of Contractor for “Request for Proposal (RFP) for Design, Engineering, Procurement, Construction (EPC), Supply, Installation, Testing & Commissioning with Comprehensive Operation & Maintenance of 09 MW (AC) Grid Connected Ground Mounted Solar Power Plant with Pile Foundation of Mounting Structure of Solar Power Plant in River Bed and Construction of Retaining Wall for Flood Protection for period of 25 years on Government Land at Palamu District of Jharkhand (the “Project”). The capacity 09 MW (AC) grid-connected Ground Mounted solar PV Project is to be developed at Parta Village, Palamu of Jharkhand state. Proposed sites are at Vill.: Parta, Circle: Haidarnager, Palamu District, Jharkhand. The latitude 24.5280661, and longitude, 83.9204249 is the geo co-ordinate of the village Parta site.

<table>
<tr><th>Locations</th><th>Land area in (Acre)</th><th>Capacity in (MW)</th><th>Co-ordinates of Locations</th><th>Respective JBVNL / JUSNL S/s with approximate distance from location.</th></tr>
<tr><td>Vill.: Parta, Block.: Haidarnagar, Dist.: Palamu</td><td>50</td><td>09 MW</td><td>Latitude: 24.5280661 Longitude: 83.9204249</td><td>JBVNL, 33/11 KV Deori S/s @ Approx. 05 – 07 KM</td></tr>
</table>

The above proposed site for the 9 MW ground-mounted solar power is situated near to Sone River’s riverbed area hence the land requires specialized design and engineering interventions for civil and structural works to ensure the plant’s longevity,

</td></tr>
</table>

Section / Appendix	Original Criteria	Read as/ Amendments/Addendums
	requires comprehensive planning for flood risk mitigation through construction upto 2 KM (To be done as per site survey) of Retaining wall, Complete pillar-based boundary wall with barbed wiring to reduce the flood and water logging risk within the project site.	structural stability, and sustainability over its operational life of 25 years. Additionally, the land requires comprehensive planning for flood risk mitigation through construction upto 2 KM (To be done as per site survey) of Retaining wall, Complete pillar-based boundary wall with barbed wiring to reduce the flood and water logging risk within the project site. ***The bidder must construct a proper drainage system to avoid any kind of waterlogging or flooding-like situation at the plant site. The drainage system shall be developed considering the geographical conditions of the site with a proper system to drain water.*** ***The Metering, SCADA, and all other protection systems necessary for the operation of the plant and evacuation of power, and all other complete jobs shall in the scope of the successful bidder as per Central Electricity Authority (CEA) standards.***
New Clause (**Addendums)**	26. Handing Over Asset (Page No 34)	***Note:*** • ***The Bidder shall himself inspect and shall get satisfied with the transportation facilities, Road conditions, warehouse availability, and shall also deploy security personnel to ensure the complete safety, Insurance and security of materials at the site.*** • ***The Bidder shall obtain a power connection from JBVNL at their own cost and will pay energy charges and ensure availability of DG set for proper lighting, drinking water at the site.***
Technical and Financial Eligibility Conditions Project Experience Requirements for General bidder Section 3,	**a) For General Bidders:** I. The bidder must have experience in EPC execution of grid connected ground mounted Solar PV Projects on Turnkey basis including the design, supply, installation, and	**b) For General Bidders:** I. The bidder must have experience in EPC execution of grid connected ground mounted Solar PV Projects on Turnkey basis including the design, supply, installation, and commissioning of

Section / Appendix	Original Criteria	Read as/ Amendments/Addendums
Clause 2.2 (Page No 38)	commissioning of ground-mounted photovoltaic-based grid-connected power plants with a cumulative capacity of at least **4.5 MW over the past seven years (FY 2018-19 to FY 2024-25 or FY 2019-20 to FY 2025-26) out of which** the bidder must have developed at least 1 (one) grid connected ground-mounted solar power plant, having a capacity of 1 (one) MW at a single location with commissioning between the given timeline. **And the bidder must submit all the above experience only with any State Govt. / Central Govt./ Govt. SNA/Govt. Autonomous Body/ Govt. Organization / Govt. Utility** Also, such Grid Connected Ground Mounted Solar PV Power Plant (s) must have been in satisfactory operation for at least six (6) months prior to the last date of bid submission. *Or*, The bidder should have experience in EPC execution of grid connected ground mounted Solar PV Projects on Turnkey basis including the design, supply, installation, and commissioning of ground-mounted photovoltaic-based grid-connected power plants with a cumulative capacity of at least **4.5 (four and half) MW** in last 7 (seven) years **(FY 2018-19 to FY 2024-25 or FY 2019-20 to FY 2025-26) out of which** must have developed at least **1 (one) ground-mounted solar power plant, having a capacity of 1 MW** at a single location with commissioning between the given timeline. However, all the above ground mounted solar power plant(s) developed by the developer must have PPA between the developer and the *State Govt. / Central Govt./Govt. Autonomous Body/ Govt. Organization / Govt. Utility/ PSU who is submitting the bid.*	ground-mounted photovoltaic-based grid- connected power plants with a cumulative capacity of at least **4.5 MW over the past seven years (FY 2018-19 to FY 2024-25 or FY 2019-20 to FY 2025-26) out of which** the bidder must have developed at least 1 (one) grid connected ground-mounted solar power plant, having a capacity of 1 (one) MW at a single location with commissioning between the given timeline. **And the bidder must submit all the above experience only with any State Govt. / Central Govt./ Govt. SNA/Govt. Autonomous Body/ Govt. Organization / Govt. Utility** Also, such Grid Connected Ground Mounted Solar PV Power Plant (s) must have been in satisfactory operation for at least six (6) months prior to the last date of bid submission. *Or*, The bidder should have experience in EPC execution of grid connected ground mounted Solar PV Projects on Turnkey basis including the design, supply, installation, and commissioning of ground-mounted photovoltaic-based grid-connected power plants with a cumulative capacity of at least **4.5 (four and half) MW** in last 7 (seven) years **(FY 2018-19 to FY 2024-25 or FY 2019-20 to FY 2025-26) out of which** must have developed at least **1 (one) ground-mounted solar power plant, having a capacity of 1 MW** at a single location with commissioning between the given timeline. However, all the above ground mounted solar power plant(s) developed by the developer must have PPA between the developer and the *State Govt. / Central Govt./Govt. Autonomous Body/ Govt. Organization / Govt. Utility/ PSU who is submitting the bid.*

Section / Appendix	Original Criteria	Read as/ Amendments/Addendums
	Also, such Grid connected Ground Mounted Solar PV Power Plant capacity must have been in satisfactory operation for at least six (6) months prior to the last date of bid submission. Note: 1. The scan original copies of work orders and work completion certificates with O&M report/certificate (last 6 months) issued by government authorities indicating its successful execution and performance certificate must be enclosed with Form-12) 2. Work experience with any Private Firm/Private entity/Private Developer shall not be accepted. However, any Private Firm/Private entity/Private Developer (*without sub-contracting experience)* signed PPA directly with any State Govt. / Central Govt./Govt. Autonomous Body/ Govt. Organization / Govt. Utility/ PSU experiences of these entities will be considered. The project experiences furnished by Bidder to meet above project experience criteria, shall be counted / considered from date of Commissioning/Synchronization of the plant. Such plants shall be Commissioned/Synchronized between (FY 2018-19 to FY 2024-25 or FY 2019-20 to FY 2025-26.	Also, such Grid connected Ground Mounted Solar PV Power Plant capacity must have been in satisfactory operation for at least six (6) months prior to the last date of bid submission. ***Including*** ***The bidder must have Work Experience of construction of Pile Foundation & Retaining Wall - Work Order Value - Not less than INR 4 (four) Cr (cumulative value) from single work order or multiple work orders with any State Govt. / Central Govt./Govt. Autonomous Body/ Govt. Organization / Govt. Utility/ PSU in last 7 years (2018-19 to 2024-25 or 2019-20 to 2025-26).*** Note: 1. The scan original copies of work orders and work completion certificates with O&M report/certificate (last 6 months) issued by government authorities indicating its successful execution and performance certificate must be enclosed with Form-12) 2. Work experience with any Private Firm/Private entity/Private Developer shall not be accepted. However, any Private Firm/Private entity/Private Developer (*without sub-contracting experience)* signed PPA directly with any State Govt. / Central Govt./Govt. Autonomous Body/ Govt. Organization / Govt. Utility/ PSU experiences of these entities will be considered. 3. The Bidder's work order shall clearly mention the solar and civil experience mentioned in Clause no 2.2 of this RfP. The project experiences furnished by Bidder to meet above project experience criteria, shall be counted / considered from date of Commissioning/Synchronization of the plant. Such plants shall be

Section / Appendix	Original Criteria	Read as/ Amendments/Addendums
		Commissioned/Synchronized between (FY 2018-19 to FY 2024-25 or FY 2019-20 to FY 2025-26.
Technical & Financial Requirements for Individual Bidder And JV/Consortium, Section 3, Clause 2.4) Page No.- 42	The bidder must have experience in EPC execution of grid connected ground mounted Solar PV Projects on Turnkey basis including the design, supply, installation, and commissioning of ground-mounted, photovoltaic-based, grid-connected power plants with a cumulative capacity of at least 4.5 MW over the past seven years (FY 2018-19 to FY 2024-25 or FY 2019-20 to FY 2025-26) out of which the bidder must have developed at least 1 (one) grid connected ground-mounted solar power plant, having a capacity of 1 (one) MW at a single location with commissioning between the given timeline. And the bidder must submit all the above experience with any State Govt. / Central Govt./ Govt. SNA/Govt. Autonomous Body/ Govt. Organization / Govt. Utility Or, The bidder should have experience in EPC execution of grid connected ground mounted Solar PV Projects on Turnkey basis including the design, supply, installation, and commissioning of ground-mounted, photovoltaic-based, grid-connected power plants with a cumulative capacity of at least 4.5 (four and half) MW in last 7 (seven) years (FY 2018-19 to FY 2024-25 or FY 2019-20 to FY 2025-26) out of which must have developed at least 1 (one) ground-mounted solar power plant, having a capacity of 1 MW at a single location with commissioning between the given timeline. However, all the above ground mounted solar power plant(s) developed by the developer must have PPA between developer and the State Govt. / Central Govt./Govt. Autonomous Body/ Govt. Organization / Govt. Utility/ PSU who is submitting the bid.	The bidder must have experience in EPC execution of grid connected ground mounted Solar PV Projects on Turnkey basis including the design, supply, installation, and commissioning of ground-mounted, photovoltaic-based, grid-connected power plants with a cumulative capacity of at least 4.5 MW over the past seven years (FY 2018-19 to FY 2024-25 or FY 2019-20 to FY 2025-26) out of which the bidder must have developed at least 1 (one) grid connected ground-mounted solar power plant, having a capacity of 1 (one) MW at a single location with commissioning between the given timeline. And the bidder must submit all the above experience with any State Govt. / Central Govt./ Govt. SNA/Govt. Autonomous Body/ Govt. Organization / Govt. Utility Or, The bidder should have experience in EPC execution of grid connected ground mounted Solar PV Projects on Turnkey basis including the design, supply, installation, and commissioning of ground-mounted, photovoltaic-based, grid-connected power plants with a cumulative capacity of at least 4.5 (four and half) MW in last 7 (seven) years (FY 2018-19 to FY 2024-25 or FY 2019-20 to FY 2025-26) out of which must have developed at least 1 (one) ground-mounted solar power plant, having a capacity of 1 MW at a single location with commissioning between the given timeline. However, all the above ground mounted solar power plant(s) developed by the developer must have PPA between developer and the State Govt. / Central Govt./Govt. Autonomous Body/ Govt. Organization / Govt. Utility/ PSU who is submitting the bid *Including*

Section / Appendix	Original Criteria	Read as/ Amendments/Addendums
		The bidder must have Work Experience of construction of Pile Foundation & Retaining Wall - Work Order Value - Not less than INR 4 (four) Cr (cumulative value) from single work order or multiple work orders with any State Govt. / Central Govt./Govt. Autonomous Body/ Govt. Organization / Govt. Utility/ PSU in last 7 years (2018-19 to 2024-25 or 2019-20 to 2025-26).
Evacuation of Power & Metering Point (page no 36), Section 5, Clause no- 1.3 (6)	Evacuation voltage shall be at 33 kV AC (three phase) wherein evacuating point cum metering point shall be installed at 33 kV bay in JBVNL's Power Substation Viz. Approx. 05-07 km away from the site. ABT Meter to measure net power evacuation shall be installed at 33 kV switchyard at generating end and at metering bay of JBVNL's Power Substation.	***Evacuation voltage at 33 kV AC (three phase) upto JBVNL's Power Substation.*** ***Bidder will install and commission 9 MW AC Solar Power Plant in two sections. The first section will consist of 5 MW solar power unit with a 7.5 MVA Solar Power Transformer having an output voltage of 33 kV. The second section will consist of 4 MW with a 7.5 MVA Solar Power Transformer with an output voltage of 33 kV. The two separate 7.5 MVA Solar Power Transformers will evacuate power at 33 KV voltage. And power evacuated from each 7.5 MVA transformer at 33 KV voltage with all Metering, SCADA system, Protection system, Switchgear, Isolator including all required Electrical and Power Evacuation arrangements with all complete job will connect with two numbers (2 nos) of 10 MVA transformers of Jharkhand Bijli Vitran Nigam Limited (JBVNL) owned 33/11 KV Power Substation.*** ***JREDA will provide the Tentative Conceptual Layout of Solar Power Plant drawing (given in Annexure 10) to the bidder and accordingly the bidder will install the 9 MW (AC) Solar Power Plant referring the tentative conceptual layout after getting approval from JREDA.*** ***The successful bidder shall develop a total 9 MW (AC) capacity in two sections, as outlined below:*** ***i. Section-1: 5 MW (AC) Ground-Mounted Solar Unit***

Section / Appendix	Original Criteria	Read as/ Amendments/Addendums
		connected to 7.5 MVA Solar Power Transformer. ***ii. Section-2: 4 MW (AC) Ground-Mounted Solar Unit connected to 7.5 MVA Solar Power Transformer.*** ***The Scope of the bidder will consist of the installation of 9 MW of solar power plant in two (2) separate sections as above with two (2) separate solar power transformers with 7.5 MV capacity, each transformer, with 33 kV output voltage, will be fed power into two numbers (2 nos.) of 10 MVA Power transformers of Jharkhand Bijli Vitran Nigam Limited (JBVNL) 33/11kV power substation. The incoming voltage of 10 MVA Transformers at JBVNL substation end will be at 33 KV and the outgoing of these transformers will be at 11 kV voltage level, which will be connected to JBVNL Power Distribution Network.*** ***The bidder shall make sure to design the above-mentioned evacuation framework by ensuring maximum solar power generation from the 9MW (AC) Solar Power Plant, while achieving maximum efficiency for the plant.***

<table>
<tr><th>Section / Appendix</th><th>Original Criteria</th><th>Read as/ Amendments/Addendums</th></tr>
<tr>
<td>Additional Security Deposit (ASD) Illustration (Section 5, Clause no- 6.2)
Page No-77</td>
<td>
Illustration
<table>
<tr><th>S.No</th><th>Particulers</th><th>Till commissioning (As per Clause 6.2)</th></tr>
<tr><td>1</td><td>Estimated Cost (Cr)</td><td>81.74</td></tr>
<tr><td>2</td><td>Quoted EPC cost (Cr)</td><td>75</td></tr>
<tr><td>3</td><td>Additional Security Deposit (ASD) (%)</td><td>8.25%</td></tr>
<tr><td>5</td><td>Additional Security Deposit (ASD) (Cr)</td><td>12.37</td></tr>
</table>
</td>
<td>
For Illustration
Illustration
<table>
<tr><th>Sno.</th><th>Particulars</th><th>Till Commissioning (As per Clause 6.2) (in Cr)</th></tr>
<tr><td>1</td><td>Estimated Cost (Cr)</td><td>92.97</td></tr>
<tr><td>2</td><td>Quoted EPC Cost (Cr)</td><td>90.18</td></tr>
<tr><td>3</td><td>Additional Security Deposit (ASD) (%)</td><td>3.00%</td></tr>
<tr><td>4</td><td>Additional Security Deposit (Cr)</td><td>5.41</td></tr>
</table>
Total Security Deposit = (9.02+ 5.41) = 14.43 Cr
Total Security Deposit = 10% of Quoted EPC cost + Additional Security Deposit
Total Security Deposit = Security deposit (10% of total Quoted cost) + computed Additional Security Deposit (as per the above calculation)
The calculation of the Additional Security Deposit (ASD) can be referred from the ILLUSTRATIVE table below:
<table>
<tr><th>Estimated Bid Value / Base Rate (including GST) in CR</th><th>Percentage Reduction in Bid Value (in %)</th><th>Security Deposit, (10% of Quoted Bid Value) in Cr</th><th>Additional Security Deposit (ASD), in Cr</th><th>Total (Security Deposit+ Additional Security Deposit), in Cr</th></tr>
<tr><td rowspan="6">92.97</td><td>0%</td><td>9.297</td><td>0</td><td>9.297</td></tr>
<tr><td>1%</td><td>9.204</td><td>1.841</td><td>11.045</td></tr>
<tr><td>2%</td><td>9.111</td><td>3.644</td><td>12.755</td></tr>
<tr><td>3%</td><td>9.018</td><td>5.411</td><td>14.429</td></tr>
<tr><td>4%</td><td>8.925</td><td>7.140</td><td>16.065</td></tr>
<tr><td>5%</td><td>8.832</td><td>8.832</td><td>17.664</td></tr>
<tr><td colspan="5">....
....
And so on
....
....
* In case the bidder quoted below the Estimated cost of the Bid, the computation will be done as per the above formula mentioned. And the bidder has to calculate the Security Deposit and Additional Security Deposit as per the quoted bid price.</td></tr>
</table>
</td>
</tr>
<tr>
<td>Additional Performance Security (APS) Illustration (Section 5, Clause no- 7.2)
Page No-78</td>
<td>
Illustration
<table>
<tr><th>S.No</th><th>Particulers</th><th>Post commissioning (As per Clause 7.2)</th></tr>
<tr><td>1</td><td>Estimated Cost (Cr)</td><td>81.74</td></tr>
<tr><td>2</td><td>Quoted EPC cost (Cr)</td><td>75</td></tr>
<tr><td>3</td><td>Additional Performance Security (APS) (%)</td><td>8.25%</td></tr>
<tr><td>4</td><td>25% of Quoted EPC cost (Cr)</td><td>18.75</td></tr>
<tr><td>5</td><td>Additional Performance Security (APS) (Cr)</td><td>3.09</td></tr>
</table>
</td>
<td>
For Illustration:
Illustration
<table>
<tr><th>Sno.</th><th>Particulars</th><th>Till Commissioning (As per Clause 7.2) (in Cr)</th></tr>
<tr><td>1</td><td>Estimated Cost (Cr)</td><td>92.97</td></tr>
<tr><td>2</td><td>Quoted EPC Cost (Cr)</td><td>90.18</td></tr>
<tr><td>3</td><td>Additional Performance Security (APS) (%)</td><td>3.00%</td></tr>
<tr><td>4</td><td>25 % of Quoted EPC cost (Cr)</td><td>22.54</td></tr>
<tr><td>5</td><td>Additional Performance Security (Cr)</td><td>1.35</td></tr>
</table>
Total Performance Security = (4.51+ 1.35) = 5.86 Cr
Total Performance Security= 5% of Quoted EPC cost + Additional Performance Security
</td>
</tr>
</table>

<table>
<tr><th>Section / Appendix</th><th>Original Criteria</th><th>Read as/ Amendments/Addendums</th></tr>
<tr><td></td><td></td><td>Total Performance Security= Performance Security deposit (5% of total quoted cost) + computed Additional Performance Security (as per the above calculation)
The calculation of Additional Performance Security (APS) can be referred from the ILLUSTRATIVE table below:
<table>
<tr><th>Estimated Bid Value / Base Rate (including GST) in CR</th><th>Percentage Reduction in Bid Value (in %)</th><th>Performance Security, (5% of Quoted Bid Value) in Cr</th><th>Additional Performance Security (APS), in Cr</th><th>Total (Security Deposit+ Additional Security Deposit), in Cr</th></tr>
<tr><td rowspan="6">92.97</td><td>0%</td><td>4.649</td><td>0</td><td>4.649</td></tr>
<tr><td>1%</td><td>4.602</td><td>0.460</td><td>5.062</td></tr>
<tr><td>2%</td><td>4.556</td><td>0.911</td><td>5.467</td></tr>
<tr><td>3%</td><td>4.509</td><td>1.353</td><td>5.862</td></tr>
<tr><td>4%</td><td>4.463</td><td>1.785</td><td>6.248</td></tr>
<tr><td>5%</td><td>4.416</td><td>2.208</td><td>6.624</td></tr>
<tr><td colspan="5">….
….
And so on
….
….
* In case the bidder quoted below the Estimated cost of the Bid, the computation will be done as per the above formula mentioned. And the bidder has to calculate the Performance Security and Additional Performance Security (APS) as per the quoted bid price.</td></tr>
</table></td></tr>
<tr><td>Checklist (Clause 11.2)</td><td>Format of Disclosure of PV Technology Proposed as per Form-15</td><td>Amendment(Form 15 (A). 15 (B), 15 (C), 15 (D))</td></tr>
<tr><td>Form 15</td><td>Revised- Page 169</td><td>Addendum Form 15 (A). 15 (B), 15 (C), 15 (D)</td></tr>
<tr><td>ANNEXURE-5</td><td>Deleted (Page 186- 189)</td><td>Addendum as attached below (Annexure 5A, Annexure 5B, Annexure 5C)</td></tr>
<tr><td>ANNEXURE-7</td><td>Proposed Project Site Location
The identified Parta site is a piece of land owned by the Government of Jharkhand, located at Haidarnagar, Palamu. Haidarnagr is a village panchayat located in the Palamu district of Jharkhand, India. The latitude 24.5280661, and longitude, 83.9204249 is the geo co-ordinate of the Parta site. Nearest City or Town located near Parta is Palamu around 106 Kilometre and JREDA Office at Ranchi is located around 286 kilometres away from site location.</td><td>The tentative latitude and longitude of the land identified at Vill.: Parta, Block.: Haidarnagar, Dist Palamu, Jharkhand site:
24◦ 31'45.81"N 83◦ 55'16.74" E
24◦ 31'52.28"N 83◦ 55'15.58" E
24◦ 31'58.77"N 83◦ 55'52.92" E
24◦ 31'53.31"N 83◦ 55'55.60" E

Link for site location: https://maps.app.goo.gl/mTVeYcxjXds6MEiL6</td></tr>
<tr><td>Annexure</td><td>ANNEXURE-1: FORMAT OF PRICE BID</td><td>Addendum (Annexure Attached)</td></tr>
<tr><td>Annexure</td><td>Annexure 10 : Tentetive Conceptual Layout for 09 MW Solar</td><td>Addendum (Annexure Attached)</td></tr>
</table>

Section / Appendix	Original Criteria	Read as/ Amendments/Addendums
	Power Plant Layout.	

Note:

1. Changes made as above in NIB shall be read accordingly for similar changes in the related Annexure.
2. The Corrigendum shall form an integral part of the tender documents

Sd/-
Director
JREDA, Ranchi

ADDENDUM

Form 15- Addendum

FORM-15 (A): FORMAT OF DISCLOSURE OF PV TECHNOLOGY PROPOSED

(On the bidder's letterhead)

A	**PV MODULE**		
1	Type Module (Equal or more than 545 Wp) as per Latest ALMM list of MNRE	:	Mono Crystalline silicon (>= 545 Wp & >=144 cell) as per Latest ALMM list of MNRE & as per MNRE specifications. (Confirming to MNRE latest notification no- F. No. 283/ 41/2024-GRID SOLAR on dated 13.08.2025)
2	Module Capacity	:	----------------------(>=545 Wp) & -------------------------No. of Cells (>=144 cell) (MNRE latest notification no- F. No. 283/ 41/2024-GRID SOLAR on dated 13.08.2025)
3	No. of Modules (for equivalent of 9 MW-AC Capacity of Solar plant)	:	
B	**PV INVERTER**		
1	Type of Inverter	:	String Inverter
2	Inverter Capacity	:	.... kW
3	Number of Inverters	:	
C	**MODULE MOUNTING STRUCTURE** Should meet requirements as per RfP		**As per RfP**

Note:

- JREDA shall hold the rights to approve all designs, drawings, technical specifications and BOM/BOQ (with item cost) prior to supplying of each items/material at site to commission the plant. NOC shall be obtained by selected bidder from JREDA.
- JREDA shall approve manufactures of modules, inverters, transformers, Structure, Cables, Electrical Panels and other major items before purchasing by the selected bidder. The selected bidder shall ensure to submit all the details such as Manufacturers brand name, factory/ manufacturing facility details, Test reports, Certifications etc.
- If JREDA or JBVNL decides to change any specification of transformer equipment, civil works then decision of JREDA or JBVNL will be final, and accordingly the successful bidder shall comply with the same.
- Any works required to complete power evacuation and synchronisation (to 33 KV JBVNL) and SCADA integration of generating power of PV Plant shall be carried out by successful bidder.

(Signature of Authorized Signatory)

Name:
Designation:

Company Seal:

FORM-15 (B): FORMAT OF DISCLOSURE OF CIVIL WORK

(On the bidder's letterhead)

I/We………………………………………………………… hereby declare that the civil works, structural works, Piling and foundation design for the above-mentioned project shall be undertaken after carrying out detailed engineering assessments, soil investigation, and site analysis in accordance with the relevant Indian Standards (IS Codes) and applicable technical specifications.

I/ We declare that:

- the foundations, piling shall be designed considering the weight and load distribution of structures and equipment, maximum wind speed for the location as per relevant IS standards, and seismic factors applicable to the site.
- all enclosed areas below plinth level will be backfilled using approved sand/murram/soil which has been tested in a Government or NABL-accredited laboratory and compacted to achieve minimum 95% Proctor Density. Excavated soil from foundation pits shall not be used for backfilling unless approved after laboratory testing.
- minor equipment foundations including Weather Monitoring Station, Lightning Arrestor in the array field, Street Light Poles, Security Cabin, Watchman Cabin, Pipeline network foundations, String Combiner Box / Array Junction Box / String Junction Box etc. shall be constructed with reinforcement and specifications as per relevant IS standards.
- shadow analysis and site assessment shall be conducted and accordingly design the module mounting structure, strings, and array layout ensuring optimal utilization of space and compliance with engineering standards.
- RCC structures including control room, inverter room, watchman cabin, and security cabin shall be designed and constructed strictly in accordance with applicable Indian Standard Codes.

I/We acknowledge that the proposed land is located near the Sone River riverbed area, and therefore special engineering considerations shall be incorporated in the design to ensure structural safety, flood resilience, and long-term sustainability of the plant for a minimum period of 25 years.

I/We confirm that the project site may require flood protection and mitigation measures, including construction of retaining walls (up to approximately 2 km or as per detailed site survey), pillar-based boundary wall with barbed wire fencing, and other flood control measures to minimize the risk of water logging and flood damage.

I/We acknowledge that the soil conditions at the site may be sandy and liquefiable in nature, and therefore we shall undertake detailed geotechnical investigation, soil testing, soil conditioning, and if required pile foundations or other suitable foundation techniques to ensure structural stability.

I/We further declare that all civil, structural, piling and foundation designs, drawings, and calculations shall be submitted to Jharkhand Renewable Energy Development Agency for review and approval prior to commencement of construction.

In case any modification or variation is suggested by JREDA during design review, we shall incorporate the required changes at our own cost before obtaining final approval and commencing construction.

I/ We undertake full responsibility for the safety, stability, and durability of all civil and structural works for the operational life of the plant (minimum 25 years).

(Signature of Authorized Signatory)

Name:
Designation:

Company Seal:

FORM 15 (C): FORMAT OF DISCLOSURE OF ELECTRICAL WORK

(On the bidder's letterhead)

I/We………………………………………….. hereby declare and undertake that the complete electrical works, power evacuation infrastructure, communication systems, plant safety equipment, statutory approvals and final commissioning of the Solar Power Plant shall be executed by us in accordance with applicable technical specifications, relevant Indian Standards, and guidelines issued by competent authorities.

I/We further declare that:

- Installation of Solar PV Modules on Module Mounting Structures, interconnection of PV Modules, installation and commissioning of String Combiner Boxes, String Inverters, transformers, control panels, meters and associated electrical systems shall be carried out by us.
- Laying, testing and commissioning of all DC and AC cables, busbars, switchgear systems and associated electrical infrastructure shall be undertaken to ensure safe and reliable operation of the Solar Power Plant.
- Proper earthing of PV modules, module mounting structures, transformers, switchgear panels and all electrical equipment, along with installation of lightning protection system for the entire plant facilities shall be ensured.
- Installation and commissioning of plant illumination system, Automatic Weather Monitoring Station, CCTV surveillance system, fire detection and fire protection system shall be provided as required for safe and efficient operation of the plant.
- Development of complete power evacuation infrastructure up to the substation of Jharkhand Bijli Vitran Nigam Limited including installation of ABT meter, switchgear system and SCADA integration at both plant side and evacuation side shall be undertaken by us.
- Adequate Solar PV module cleaning infrastructure including water storage tank, borewell, pipeline network, pumps and other accessories shall be developed to maintain required cleaning frequency for achieving guaranteed generation.
- Construction of RCC cable trenches with trays and covers in control and inverter rooms and earthen cable trenches in PV array yard shall be undertaken as per relevant IS standards.
- Complete plant SCADA system with string level monitoring, RTU for communication with SLDC and internet connectivity shall be installed and maintained. Internet connection shall be in the name of Jharkhand Renewable Energy Development Agency and all associated charges during EPC and O&M period shall be borne by us.
- All transformer components its capacity shall be as per the technical standard set in this RfP.
- Adequate plant safety equipment including fire extinguishers, sand buckets, transformer discharge rods and danger sign boards shall be installed at appropriate locations.
- All statutory approvals, permissions and clearances required for construction, commissioning and operation of the Solar Power Plant including approvals from Pollution Control Board, Mining Department, Forest Department, Chief Electrical Inspector to Government (CEIG) and power evacuation approvals from Jharkhand Bijli Vitran Nigam Limited shall be obtained by us on behalf of Jharkhand Renewable Energy Development Agency.

- All royalties, taxes and statutory charges related to excavation of earth, rocks or sand shall be borne by us.

- Adequate insurance coverage during EPC and O&M period shall be arranged to mitigate risks related to construction, operation and maintenance of the plant and to indemnify Jharkhand Renewable Energy Development Agency.

- Pre-commissioning tests, synchronization of the plant with the grid, successful completion of Operational Acceptance Test (OAT) in presence of JREDA officials and obtaining commissioning certificates from the competent authorities shall be ensured by us.

I/We hereby undertake full responsibility for the proper installation, testing, commissioning and successful operation of the Solar Power Plant in accordance with the contract agreement and directions issued by Jharkhand Renewable Energy Development Agency.

(Signature of Authorized Signatory)

Name:
Designation:

Company Seal:

FORM 15 (D): FORMAT OF DISCLOSURE OF O&M WORK

(On the bidder's letterhead)

I/We………………………………………………… hereby declare and undertake that the Comprehensive Operation and Maintenance (O&M) of the Solar Photovoltaic Power Plant shall be carried out by us for a period of twenty-five (25) years from the date of commissioning of the plant in accordance with the contract agreement, technical specifications and guidelines of Jharkhand Renewable Energy Development Agency.

I/ We further declare and confirm the following:

- The Solar Power Plant shall be operated and maintained in such a manner that the guaranteed performance of the plant as per NEEGG (Annexure-16) is achieved throughout the O&M period.
- A comprehensive project execution schedule and Operation & Maintenance schedule, including detailed resource planning in the form of Gantt Chart, shall be submitted and strictly adhered to by us.
- The Contractor shall be responsible for maintenance, repair, overhaul and timely replacement of all Civil, Mechanical and Electrical components of the plant during the entire O&M period to ensure uninterrupted operation and guaranteed plant performance.
- Any damage or failure of Civil / Electrical / Mechanical components of the plant shall be repaired or replaced by the Contractor without any additional cost or time extension to JREDA during the O&M period.
- The comprehensive O&M services shall include preventive/routine maintenance as well as breakdown/corrective maintenance to ensure maximum plant availability and uptime.
- Preventive and routine maintenance activities shall include module cleaning, inspection of plant equipment, tightening of electrical connections, health monitoring of plant components, maintenance of transformers and switchgear systems, and all other necessary activities required for efficient operation.
- In case of any fault or breakdown, the Contractor shall attend and rectify the fault within 24 hours of occurrence, failing which penalties shall be applicable as per the terms of the contract.
- The Contractor shall deploy qualified and experienced engineers, technicians and security personnel for the safe and efficient operation and protection of the Solar Power Plant.
- The Contractor shall maintain accurate operating logs, maintenance records and monthly O&M reports, and provide daily generation data to JREDA in electronic format (CSV). Ownership and rights of all operational data shall remain with JREDA.
- Procurement and maintenance of spare parts, tools, tackles, consumables and maintenance equipment required for the entire O&M period shall be the responsibility of the Contractor as per OEM recommendations and standard industry practices.

- The Contractor shall carry out periodic maintenance and overhauls of equipment as recommended by OEMs and submit maintenance schedules at the time of plant commissioning.
- The Contractor shall ensure continuous monitoring, troubleshooting and maintenance of all plant equipment including PV modules, inverters/PCUs, transformers, panels, overhead lines, monitoring systems and associated infrastructure.
- The Contractor shall coordinate with grid authorities and other statutory organizations for metering reports, generation scheduling, grid compliance and other operational requirements.
- Periodic cleaning of solar modules shall be undertaken as per OEM recommendations and instructions of JREDA to maintain optimal energy generation.
- The Contractor shall ensure replacement of modules, inverters/PCUs or other plant equipment whenever required during the O&M period without any additional financial implication to JREDA.
- The Contractor shall maintain the plant premises, administrative offices, internal roads, storage rooms and equipment areas in clean, green and workable condition throughout the O&M period.
- All safety measures shall be implemented at the project site, including provision of PPE, rubber gloves, safety shoes, rubber mats and other safety equipment for personnel engaged during construction and O&M activities.
- At the end of the penultimate year of the O&M period, the Contractor shall handover complete inventory details of spare parts, tools, equipment, consumables and recommended spare lists along with supplier details, replacement records and technical specifications.

I/We hereby undertake full responsibility for successful operation, maintenance and performance of the Solar Power Plant during the entire O&M period in accordance with the contract agreement and directions issued by Jharkhand Renewable Energy Development Agency.

(Signature of Authorized Signatory)

Name:
Designation:

Company Seal:

ANNEXURE-1: FORMAT OF PRICE BID

(To be submitted in.pdf file with price bid only. Do Not submit with Technical Part)

NIB No. 14/JREDA/SPP/PAL/25-26

To,
The Director,
Jharkhand Renewable Energy Development Agency (JREDA)
3rd Floor, SLDC Building,
Kusai Colony, Doranda
Ranchi-834 002, Jharkhand

Sub: Request for Proposal (RFP) for Design, Engineering, Procurement, Construction (EPC), Supply, Installation, Testing & Commissioning with Comprehensive Operation & Maintenance of 09 MW (AC) Grid Connected Ground Mounted Solar Power Plant with Pile Foundation of Mounting Structure of Solar Power Plant in River Bed and Construction of Retaining Wall for Flood Protection for period of 25 years on Government Land at Palamu District of Jharkhand.

Dear Sir,

I,____,

submitting the Financial Proposal for the Bid for "Request for Proposal (RFP) for Request for Proposal (RFP) for Design, Engineering, Procurement, Construction (EPC), Supply, Installation, Testing & Commissioning with Comprehensive Operation & Maintenance of 09 MW (AC) Grid Connected Ground Mounted Solar Power Plant, for a period of 25 years on Government Land at Palamu District of Jharkhand.", on EPC basis through the Tender Document No14/JREDA/SPP/PAL/25-26, confirming that:

- I agree to all the terms and conditions set forth in this Tender Document. If awarded the Project, the implementation of the Project shall also conform to the terms and conditions, as well as specifications indicated in the Tender Document and as finally indicated by the Evaluation Committee.
- Rates quoted in this Bid is for destination prices inclusive of all taxes (unless stated otherwise), levies, duties, packing, forwarding, freight, insurance, loading, unloading, supply, installation, commissioning, and any/all charges for successful Engineering, Supply & Installation, Construction, Comprehensive Operation and Maintenance of "Project" at the Site. The break-up of taxes considered are also furnished in price bid.
- Rates quoted in this Bid are INCLUSIVE of taxes and duties. The statutory variation in taxes shall be admissible in accordance with relevant clause of Taxes and duties of

Tender Document. Under no circumstances shall escalation in the prices of this Tender Document be entertained.

- The details quoted herein stand valid for at least six months from the date of opening of the Price Bid.

SL.No.	Item Description	Total Quoted Cost (excluding GST and including all other taxes and charges) (In Rs.) Price will be quoted in complete/roundoff numeric figure (without decimal figure) and lwords.	
		In Words	**In Figure**
1	**Total Quoted EPC Project Cost for Design, Engineering, Procurement, Construction (EPC), Supply, Installation, Testing & Commissioning with Comprehensive Operation & Maintenance of 09 MW (AC) Grid Connected Ground Mounted Solar Power Plant with Pile Foundation of Mounting Structure of Solar Power Plant in River Bed and Construction of Retaining Wall for Flood Protection for period of 25 years on Government Land at Palamu District of Jharkhand.** ***(Note:-*** ***1. Installation in riverbed area shall be carried out with due consideration to FLOOD PROTECTION CONDITION including RETATINING WALL of height 1.5 mtr and PILING FOUNDATION shall be provided on the riverbed using suitable high-grade materials. The Bidder shall ensure the use of quality construction materials for all special civil and structural works at the project site. Piling work shall be executed by the Bidder, and all associated costs shall be borne by the Bidder.*** ***2.If any bidder quoting lower value of bid from the estimated value (base rate) have to submit additional security deposit as per clause 6.2 in addition to security deposit as per clause 6.1 and additional***		

	performance security as per clause 7.2 in addition to performance security. As per clause 7.1 in the format as per annexure 5a & 5b respectively. ***Additional security/performance deposit amount SHALL BE TWICE the percentage of shortfall as calculated below:*** ***ASD/APS (%)= [((Estimated project cost-Quoted EPC value)/ Estimated Project Cost) x 100 %]*** ***a. Additional Security Deposit (ASD) to be submitted at the time of agreement (as per Clause 6.2 of section-5) = (2 x ASD%) x Quoted EPC value*** ***b. Additional Performance Security (APS) to be submitted along with original performance guarantee (as per Clause 7.2 of section-5) =(2 x APS%) x Total Comprehensive O&M Cost for 25 years)***		

Note:

i) Bidder shall quote the Total Quoted EPC Project Cost including entire Supply, Installation, Testing & Commissioning with Comprehensive Operation & Maintenance of 09 MW (AC) Grid Connected Ground Mounted Solar Power Plant.

ii) 25 % of the Total Quoted EPC Project Cost shall be kept for Comprehensive O&M work for 25 years; JREDA shall release the O&M amount on yearly basis upto 25 years O&M periods to the selected bidder as mentioned in the clause -5 of Section-5.

iii) Remaining 75% of Total Quoted EPC Project Cost shall be bifurcated for tow part e.g. 30% of 75 % for I&C works and 70% of 75% for Supply of Materials.

iv) If any bidder quotes lower than the estimated project cost as mentioned in this RfP, in that scenario, the successful bidder has to submit Additional Security Deposit (ASD) or Additional Performance Security (APS) as applicable. Additional security/performance deposit amount shall be twice the percentage of shortfall as calculated below:

ASD/APS (%)= [((Estimated project cost-Quoted EPC value)/ Estimated Project Cost) x 100 %]

c. **Additional Security Deposit (ASD) to be submitted at the time of agreement (as per Clause 6.2 of section-5) = (2 x ASD%) x Quoted EPC value**

d. **Additional Performance Security (APS) to be submitted along with original performance guarantee (as per Clause 7.2 of section-5) =(2 x APS%) x Total Comprehensive O&M Cost for 25 years**

v) Payment shall be made as per clause mentioned in this RFP.

vi) Above quoted price for **Solar Power Plant** is complete in all respect as per Technical Specifications inclusive of all duties, other taxes, packing, forwarding, transit insurance, loading & unloading, transportation & other charges etc and excluding GST. FOR destination at project location as mentioned in this RfP and inclusive of installation, testing, commissioning, operation & maintenance for 25 years, performance testing and training.

vii) The price bid shall be submitted online only in BOQ format. If any bidder submits the price bid in technical part shall be rejected.

viii) Certified that cost quoted for **Solar Power Plant** is as per specifications, terms & conditions mentioned in the bid document.

ix) Price will be quoted in complete/roundoff numeric figure (without decimal value) and words.

x) More than once cost by same bidder shall be rejected.

xi) JV/Consortium member shall bid single cost in a form of single bid. More than one bid by the any member shall be rejected.

(Signature of Authorized Signatory)

Name:

Designation: Company Seal:

ANNEXURE 5A: FORMAT OF BANK GUARANTEE

For Security Deposit & Additional Security Deposit

[To be on non-judicial stamp paper of Rupees One Hundred Only (INR 100/-) or appropriate value as per Stamp Act relevant to place of execution, duly signed on each page.]

Ref.: ______________________ Bank Guarantee No.: ________________

Date: ____________________________

To,

The Director,

Jharkhand Renewable Energy Development Agency (JREDA)
3rd Floor, SLDC Building,
Kusai Colony, Doranda
Ranchi-834 002, Jharkhand

PERFORMANCE BANK GUARANTEE FOR ADDITIONAL SECURITY DEPOSIT

WHEREAS Jharkhand Renewable Energy Development Agency, incorporated as a society act in year 2001 under the administrative control of the Department of Energy, Govt. of Jharkhand, having its Registered Office at 3rd Floor, SLDC Building, Kusai Colony, Doranda, Ranchi, Jharkhand (India) (Hereinafter referred to as the “Company" which expression shall unless repugnant to the context include its successors, executors, administrators, legal representatives and assigns) is setting-up a **09 MW (AC) Grid Connected Ground Mounted Solar Power Plant with Pile Foundation of Mounting Structure of Solar Power Plant in River Bed and Construction of Retaining Wall for Flood Protection for period of 25 years on Government Land at Palamu District of Jharkhand (India)** (Hereinafter referred to as “Project").

WHEREAS the Company has placed a Letter of Intent No………………………………………………… dated ………………………………….. as also a Contract dated……………………………………………….. (hereinafter called the CONTRACT) on; M/s ………………………………………………………………… registered in India under the

Companies Act, 1956, having its Registered Office………………………… (Hereinafter referred to as the "Contractor") for setting up of the said Project on the terms, specifications and conditions specified therein for **Request for Proposal (RFP) for Design, Engineering, Procurement, Construction (EPC), Supply, Installation, Testing & Commissioning with Comprehensive Operation & Maintenance of 09 MW (AC) Grid Connected Ground Mounted Solar Power Plant with Pile Foundation of Mounting Structure of Solar Power Plant in River Bed and Construction of Retaining Wall for Flood Protection for period of 25 years on Government Land at Palamu District of Jharkhand** which shall include any amendments/alterations made in the Tender Document thereto before the date of submission of the Tender by the Company, which has been unequivocally accepted by (the "Contractor").

AND WHEREAS in conformity with the provisions of Clause No. ………….………of the said CONTRACT, the "Contractor" has agreed to· furnish an unconditional Bank Guarantee for Security Deposit (SD) of 10 % of total contract value as per Clause 6.1 of this RFP and an Additional Security Deposits (ASD) linked to the quoted value by bidder and calculated as per clause 6.2 of this RFP. The Bidder has to tender a Security Deposit of 10% of the total Contract order value plus Additional Security Deposit (*(in case the bidder has quoted price below the estimated cost of tender i.e.92.97Cr)* of Rs…………………….……………….......... for the timely completion and faithful execution of the Contract and successful completion of the Performance Guarantee Tests of plant equipment to demonstrate the guaranteed values.

For illustration purposes, the applicable Additional Performance Security calculation has been given below as per Clause 6.2 of this RfP

Additional Security Deposit (ASD): If any bidder quotes lower than the estimated project cost as mentioned in this RfP, in that scenario, the successful bidder has to submit additional security deposit. Additional security deposit (ASD) amount shall be twice the percentage of shortfall as calculated below:

Additional Security Deposit (ASD) (%) = [(Estimated project cost-Quoted EPC value)/ Estimated Project Cost] X 100

Additional Security Deposit (Rs.) = (2 x ASD %) x Quoted EPC value

For Illustration

Sno.	Particulars	Till Commissioning (As per Clause 6.2) (in Cr)
1	**Estimated Cost (Cr)**	**92.97**
2	**Quoted EPC Cost (Cr)** Illustration	**90.18**
3	**Additional Security Deposit (ASD) (%)**	**3.00%**
4	**Additional Security Deposit (Cr)**	**5.41**

Total Security Deposit = (9.02+ 5.41) = 14.43 Cr

Total Security Deposit = Security deposit (10% of total Quoted cost) + computed Additional Security Deposit (as per the above calculation)

The calculation of the Additional Security Deposit (ASD) can be referred from the ILLUSTRATIVE table below:

Estimated Bid Value / Base Rate (including GST) in CR	Percentage Reduction in Bid Value (in %)	Security Deposit, (10% of Quoted Bid Value) in Cr	Additional Security Deposit (ASD) , in Cr	Total (Security Deposit+ Additional Security Deposit), in Cr
92.97	0%	9.297	0	9.297
	1%	9.204	1.841	11.045
	2%	9.111	3.644	12.755
	3%	9.018	5.411	14.429
	4%	8.925	7.140	16.065
	5%	8.832	8.832	17.664
…. …. And so on …. …. * In case the bidder quoted below the Estimated cost of the Bid, the computation will be done as per the above formula mentioned. And the bidder has to calculate the Security Deposit and Additional Security Deposit as per the quoted bid price.				

Bidder shall follow the illustrative calculation methodologies provided below to calculate the Security Deposit and Additional Security Deposit applicable in accordance to their Quoted Value. The bidder shall provide the Performance Bank Guarantee greater than the value of "Security Deposit+ Additional Security Deposit".

Estimated Bid Value (in Cr)	**Quoted Below the Bid Estimated Value**	**Bidders to deposit Security = Security Deposit + Additional Security Deposit**
92.97 Cr (Estimated Value of the project including GST)	1%	a) Quoted Value by Bidder (1% below original bid value) = **92.04 Cr** **b) Security Deposit 10 % of Quoted Cost= 9.20 Cr** c) Additional Security Deposit (%) = {(92.97-92.04) / 92.97} x100 = **1.00 %** d) **Additional Security Deposit=** (2x ASD% x Quoted Value by Bidder) **= 2 x1.00% x 92.04= 1.84 Cr** e) Total BG for Security Deposit = Security Deposit + Additional Security Deposit = (9.20 + 1.84) = **11.04 Cr**
	2%	a) Quoted Value by Bidder (2% below original bid value) = **91.11 Cr** **b) Security Deposit 10 % of Quoted cost= 9.11 Cr** c) Additional Security Deposit (%) = {(92.97-91.11) / 92.97} x100 = **2.00 %** d) **Additional Security Deposit=** (2x ASD% x Quoted Value by Bidder) **=2 x 2.00% x 91.11= 3.64 Cr** e) Total BG for Security Deposit = Security Deposit +

		Additional Security Deposit = (9.11 + 3.64) = **12.76 Cr**
	3%	a) Quoted Value by Bidder (3% below original bid value) = **90.18 Cr** **b) Security Deposit 10 % of Quoted cost= 9.02 Cr** c) Additional Security Deposit (%) = {(92.97-90.18) / 92.97} x100 = **3.00 %** d) **Additional Security Deposit=** (2x ASD% x Quoted Value by Bidder) **=2 x 3.00% x 90.18= 5.41 Cr** e) Total BG for Security Deposit = Security Deposit + Additional Security Deposit = (9.02 + 5.41) = **14.43 Cr**
	4%	a) Quoted Value by Bidder (4% below original bid value) = **89.25 Cr** **b) Security Deposit 10 % of Quoted cost= 8.93 Cr** c) Additional Security Deposit (%) = {(92.97-89.25) / 92.97} x100 = **4.00 %** d) **Additional Security Deposit=** (2x ASD% x Quoted Value by Bidder) **=2 x4.00% x 89.25= 7.14 Cr** e) Total BG for Security Deposit = Security Deposit + Additional Security Deposit = (8.93 + 7.14) = **16.07 Cr**
	5%	a) Quoted Value by Bidder (5% below original bid value) = **88.32 Cr** **b) Security Deposit 10 % of Quoted cost = 8.83 Cr**

		c) Additional Security Deposit (%) = {(92.97-88.32) / 92.97} x100 = **5.00 %** d) **Additional Security Deposit=** (2x ASD% x Quoted Value by Bidder) **=2 x 5.00% x 88.32= 8.83 Cr** e) Total BG for Security Deposit = Security Deposit + Additional Security Deposit = (8.83 + 8.83) = **17.66 Cr**
…. …. …. And so on …. * In case the bidder quoted below the Estimated cost of the Bid, the computation will be done as per the above formula mentioned.		

AND WHEREAS the Company has agreed to accept a Bank Guarantee for Rs .... from ……………………………………………. Bank having its Head Office at ………………………………………

Through its Branch……………………. (hereinafter referred to as the “Bank" which expression shall unless repugnant to the context include its successors and permitted assigns).

In consideration of the above, the “Bank” hereby unconditionally and irrevocably guarantees and undertakes as a direct responsibility, to pay to the Company merely on demand any amount not exceeding Rs. …………………………… without any demur, reservation, recourse, contest or protest and *I* or without reference to the “Contractor”.

Any such demand made by the “Company” on the “Bank” shall be conclusive and binding, notwithstanding any difference between the Company and the Contractor or any dispute pending before any Court, Tribunal, Arbitrator or any other authority. The bank undertakes not to revoke this guarantee herein contained and shall continue to be enforceable till the Company discharges this guarantee.

The decision of the Company as to whether the “Contractor” has fulfilled its obligation or not under the CONTRACT shall be final and binding on the “Bank” and the “Contractor”.

The Company shall have the fullest liberty without affecting in any way the liability of “the Bank” under this guarantee from time to time to extend the time for performance of the Contract by the “Contractor”. The Company shall have the fullest liberty without affecting this guarantee, to postpone from time to time the exercise of any powers vested in them or of any right which they might have against the “Contractor”, and to exercise the same at any time in any manner, and either to enforce or to forebear to enforce any covenants contained or implied in the Contract between the Company and “the Contractor” or any other course of remedy or security available to the Company. The Bank shall not be released of its obligations under these presents by any exercise by the Company of its liberty with reference to matters aforesaid or any of them or by reason of any other act or' forbearance to other acts of omission or commission on the part of the Company of any other indulgence shown by the Company or by any other matter or thing whatsoever which under the law would, but for this provision, have the effect of relieving the Bank.

The Bank also agrees that the Company at its opinion shall be entitled to enforce this guarantee against the Bank as a principle debtor, in the first instance without proceeding against “the Contractor”, and notwithstanding any security or other guarantee that the Company may have in relation to “the Contractor's” liabilities.

This Guarantee shall be valid for a period of …………………… (Refer NIB) months from .... i.e. up to .... The Guarantee herein contained shall be a continuing Guarantee and shall not be affected by any change in the constitution of the “Bank” or of the “Contractor”. This Guarantee shall be in addition to and shall not affect or be affected by any other security now or hereafter held by the Company and Company at its discretion and without any further consent from the Bank and without affecting the liability of the “Bank” and other indulgence to or make other arrangements with the Contractor and nothing done or omitted to be done by the Company in pursuance of any authority contained in this guarantee shall affect or discharge the liability of the Bank.

However, it has been agreed between the Contractor and the Company that there shall be only one composite Bank Guarantee for Performance Guarantee valid for a period of twenty four (24) months from the date of issue of Letter of Intent (LOI) or timeline referred in of *NIB*, *Table B* whichever is later, as per the terms of the referred Tender Document.

This Bank Guarantee shall be revalidated automatically till the Contract Performance Guarantee is extended.

Bank undertakes not to revoke this guarantee during its currency except with the previous expressed consent of the Company in writing and agrees that any change in the constitution of the Bank or the Contractor shall not discharge our liability hereunder.

IN WITNESS WHEREOF we have set our hands and seal hereunder at this………………… day of …………………………………… at ....

Address: **____________________________________**

____

Banker’s Stamp and Full address

For, ________________________ Bank,

Signature: __________________________________

Name: _____________________________________

Designation: ________________________________

Seal of Bank:

This is a tentative format for the PBG submission, JREDA may modify this as per requirements, Bidders need to approve this format from JREDA before issuing the final PBG.

ANNEXURE 5B: FORMAT OF BANK GUARANTEE

For Performance Security & Additional Performance Security (*for 25 Years of CMC Period*)

[To be on non-judicial stamp paper of Rupees One Hundred Only (INR 100/-) or appropriate value as per Stamp Act relevant to place of execution, duly signed on each page.]

Ref.: ________________________ Bank Guarantee No.: __________________

Date: ______________________________

To,

The Director,

Jharkhand Renewable Energy Development Agency (JREDA)
3rd Floor, SLDC Building,
Kusai Colony, Doranda
Ranchi-834 002, Jharkhand

PERFORMANCE BANK GUARANTEE FOR CONTRACT PERFORMANCE

WHEREAS Jharkhand Renewable Energy Development Agency, incorporated as a society act in year 2001 under the administrative control of the Department of Energy, Govt. of Jharkhand, having its Registered Office at 3rd Floor, SLDC Building, Kusai Colony, Doranda, Ranchi, Jharkhand (India) (Hereinafter referred to as the "Company" which expression shall unless repugnant to the context include its successors, executors, administrators, legal representatives and assigns) is setting-up a **09 MW (AC) Grid Connected Ground Mounted Solar Power Plant with Pile Foundation of Mounting Structure of Solar Power Plant in River Bed and Construction of Retaining Wall for Flood Protection for period of 25 years on Government Land at Palamu District of Jharkhand (India)** (Hereinafter referred to as "Project").

WHEREAS the Company has placed a Letter of Intent No………………………………………………… dated ………………………………….. as also a Contract dated……………………………………………….. (hereinafter called the CONTRACT) on; M/s ………………………………………………………………… registered in India under the Companies Act, 1956, having its Registered Office………………………… (Hereinafter referred to as the "Contractor") for setting up of the said Project on the terms, specifications and conditions specified therein for **Request for Proposal (RFP) for Design, Engineering, Procurement, Construction (EPC), Supply, Installation, Testing & Commissioning with Comprehensive Operation & Maintenance of 09 MW (AC) Grid Connected Ground Mounted Solar Power Plant with Pile Foundation of Mounting Structure of Solar Power Plant in River Bed and Construction of Retaining Wall for Flood Protection for period of 25 years on Government Land at Palamu District of Jharkhand** which shall include any amendments/alterations made in the Tender Document thereto before the date of submission of the Tender by the Company, which has been unequivocally accepted by (the "Contractor").

AND WHEREAS in conformity with the provisions of Clause No. ………….…………of the said CONTRACT, the "Contractor" has agreed to· furnish an unconditional Bank Guarantee for Performance Security Deposit of 05 % of total contract value as per Clause 7.1 of this RFP and an Additional Performance Security (APS) linked to the quoted value by bidder and calculated as per clause 7.2 of this RFP. The Bidder has to tender Performance Security Deposit of 05% of the total Contract order value plus applicable Additional Performance Security *(in case the bidder has quoted price below the estimated cost of tender value i.e.92.97Cr)* of Rs…………………….…………………........ for the timely completion and faithful execution of the Contract and successful completion of the Performance Guarantee Tests of plant equipment to demonstrate the guaranteed values.
For illustration purposes, the applicable Additional Performance Security calculation has been given below as per the Clause 7.2 of this RfP.

Additional Performance Security (APS): If any bidder quotes lower than the estimated project cost as mentioned in this RfP, in that scenario, the successful bidder has to submit additional performance security. Additional Performance security amount shall be twice the percentage of shortfall as calculated below:

Additional Performance Security (APS) (%) = [(Estimated project cost-Quoted EPC value)/ Estimated Project Cost] x 100%

Additional Performance Security (APS) (Rs.) = (2 x APS) x Total Comprehensive O&M Cost for 25 year

For Illustration:

Sno.	Particulars	Till Commissioning (As per Clause 7.2) (in Cr)
1	**Estimated Cost (Cr)**	**92.97**
2	**Quoted EPC Cost (Cr)**	**90.18**
3	**Additional Performance Security (APS) (%)**	**3.00%**
4	**25 % of Quoted EPC cost (Cr)**	**22.54**
5	**Additional Performance Security (Cr)**	**1.35**

Total Performance Security = (4.51+ 1.35) = 5.86 Cr

Total Performance Security= Performance Security deposit (5% of total quoted cost) + computed Additional Performance Security (as per the above calculation)

The calculation of Additional Performance Security (APS) can be referred from the ILLUSTRATIVE table below:

Estimated Bid Value / Base Rate (including GST) in CR	Percentage Reduction in Bid Value (in %)	Performance Security, (5% of Quoted Bid Value) in Cr	Additional Performance Security (APS), in Cr	Total (Security Deposit+ Additional Security Deposit), in Cr
92.97	0%	4.649	0	4.649
	1%	4.602	0.460	5.062
	2%	4.556	0.911	5.467
	3%	4.509	1.353	5.862
	4%	4.463	1.785	6.248
	5%	4.416	2.208	6.624
…. …. And so on …. ….				

* In case the bidder quoted below the Estimated cost of the Bid, the computation will be done as per the above formula mentioned. And the bidder has to calculate the Performance Security and Additional Performance Security (APS) as per the quoted bid price.

Estimated Bid Value (in Cr)	**Quoted Below the Bid Estimated Value**	**Bidders to deposit Performance Security = Performance Security Deposit + Additional**

		Performance Security
92.97 Cr (Estimated Value of the project including GST)	1%	a) Quoted Value by Bidder (1% below original bid value) = **92.04 Cr** **b) Performance Security Deposit 05 % of Quoted cost= 4.60 Cr** c) Additional Performance Security (%) = {(92.97-92.04) / 92.97} x100 = **1.00 %** d) **Additional Performance Security =** (2x APS% x 25% of Quoted Value by Bidder) **=2 x1.00% x 23.01 = 0.46 Cr** e) Total BG for performance Security = Performance Security Deposit + Additional Performance Security = (4.60 + 0.46) = **5.06 Cr**
	2%	a) Quoted Value by Bidder (2% below original bid value) = 91.11 **Cr** **b) Performance Security Deposit 05 % of Quoted cost= 4.56 Cr** c) Additional Performance Security (%) = {(92.97-91.11) / 92.97} x100 = **2.00 %** d) **Additional Performance Security=** (2x APS% x 25% of Quoted Value by Bidder) **=2 x2.00% x 22.77= 0.91 Cr**

		e) Total BG for Performance Security = Performance Security Deposit + Additional Performance Security= (4.56 + 0.91) = **5.47 Cr**
	3%	a) Quoted Value by Bidder (3% below original bid value) = **90.18 Cr** **b) Performance Security Deposit 05 % of Quoted cost= 4.51 Cr** c) Additional Performance Security (%) = {(92.97-90.18) / 92.97} x100 = **3.00 %** d) **Additional Performance Security=** (2x APS% x 25% of Quoted Value by Bidder) **=2 x3.00% x 22.54= 1.35 Cr** e) Total BG for Performance Security = Performance Security Deposit + Additional Performance Security= (4.51 + 1.35) = **5.86 Cr**

	4%	a) Quoted Value by Bidder (4% below original bid value) = **89.25 Cr** **b) Performance Security Deposit 05 % of Quoted cost= 4.46 Cr** c) Additional Performance Security (%) = {(92.97-89.25) / 92.97} x100 = **4.00 %** d) **Additional Performance Security =** (2x ASD% x 25% of Quoted Value by Bidder) **=2 x4.00% x 22.31= 1.79 Cr** e) Total BG for Performance Security= Performance Security Deposit + Additional Performance Security= (4.46 + 1.79) = **6.25 Cr**
	5%.	a) Quoted Value by Bidder (5% below original bid value) = **88.32 Cr** **b) Performance Security Deposit 05 % of Quoted cost= 4.42 Cr** c) Additional Performance Security (%) = {(92.97-88.32) / 92.97} x100 = **5.00 %** d) **Additional Performance Security=** (2x APS% x 25 % of Quoted Value by Bidder) **=2 x5.00% x 22.08= 2.21 Cr** e) Total BG for Performance Security= Performance

		Security Deposit + Additional Performance Security = (4.42 + 2.21) = **6.62 Cr**
… …. And so on …. * In case the bidder goes below the Estimated cost, the computation will be done as per the above formula mentioned.		

AND WHEREAS the Company has agreed to accept a Bank Guarantee for Rs .... from ……………………………………………. Bank having its Head Office at ………………………………………

Through its Branch……………………. (hereinafter referred to as the “Bank" which expression shall unless repugnant to the context include its successors and permitted assigns).

In consideration of the above, the “Bank” hereby unconditionally and irrevocably guarantees and undertakes as a direct responsibility, to pay to the Company merely on demand any amount not exceeding Rs. …………………………… without any demure, reservation, recourse, contest or protest and *I* or without reference to the “Contractor”.

Any such demand made by the “Company” on the “Bank” shall be conclusive and binding notwithstanding any difference between Company and the Contractor or any dispute pending before any Court, Tribunal, Arbitrator or any other authority. The bank undertakes not to revoke this guarantee herein contained and shall continue to be enforceable till the Company discharge this guarantee.

The decision of the Company as to whether the “Contractor” has fulfilled its obligation or not under the CONTRACT shall be final and binding on the “Bank” and the “Contractor”.

The Company shall have the fullest liberty without affecting in any way the liability of “the Bank” under this guarantee from time to time to extend the time for performance of the Contract by the “Contractor”. The Company shall have the fullest liberty without affecting this guarantee, to postpone from time to time the exercise of any powers vested in them or of any right which they might have against the “Contractor”, and to exercise the same at any time in any manner, and either to enforce or to forebear to enforce any covenants contained or implied in the Contract between the Company and “the Contractor” or any other course of remedy or security available to the Company. The Bank shall rot be released of its obligations under these presents by any exercise by the Company of its liberty with reference to matters aforesaid or any of them or by reason of any other act or' forbearance to other acts of omission or commission on the part of the Company of any other indulgence shown by the Company or by any other matter or thing whatsoever which under the law would, but for this provision, have the effect of relieving the Bank.

The Bank also agrees that the Company at its opinion shall be entitled to enforce this guarantee against the Bank as a principle debtor, in the first instance without proceeding against "the Contractor", and notwithstanding any security or other guarantee that the Company may have in relation to "the Contractor's" liabilities.

This Guarantee shall be valid for a period of …………………… (Refer NIB) months from .... i.e. up to .... The Guarantee herein contained shall be a continuing Guarantee and shall not be affected by any change in the constitution of the "Bank" or of the "Contractor". This Guarantee shall be in addition to and shall not affect or be affected by any other security now or hereafter held by the Company and Company at its discretion and without any further consent from the Bank and without affecting the liability of the "Bank" and other indulgence to or make other arrangements with the Contractor and nothing done or omitted to be done by the Company in pursuance of any authority contained in this guarantee shall affect or discharge the liability of the Bank.

However, it has been agreed between the Contractor and the Company that there shall be only one composite Bank Guarantee for Performance Guarantee valid for a period of twenty four (24) months from the date of issue of Letter of Intent (LOI) or timeline referred in of *NIB*, *Table B* whichever is later, as per the terms of the referred Tender Document.

NOTWITHSTANDING anything herein before above contained, the liability of the Bank under this Guarantee shall be restricted to Rs........................ *(5% of the EPC Contract Price or including the addition applicable APS as applicable as per Clause-7.2 of Section-5 of this RFP)* and the Guarantee shall remain in force up to and including ____.

This Bank Guarantee shall be revalidated automatically till the Contract Performance Guarantee is extended.

Bank undertakes not to revoke this guarantee during its currency except with the previous expressed consent of the Company in writing and agrees that any change in the constitution of the Bank or the Contractor shall not discharge our liability hereunder.

IN WITNESS WHEREOF we have set our hands and seal hereunder at this………………… day of ………………………………… at ....

For, ______________________ Bank,

Signature: ______________________________

Name: _________________________________

Designation: ____________________________

Address: __________________________________

____

____

Banker's Stamp and Full address

Dated this__________day of ______.., 20xx

This is a tentative format for the PBG submission, JREDA may modify this as per requirements, Bidders need to approve this format from JREDA before issuing the final PBG.

ANNEXURE 5 C: BANK CERTIFICATE ON ELIGIBILITY

(On the letterhead of the bank)

This is to certify in respect to **…………………………………….(name of the Bidder),** having Registered Office at……………………….……………………………………………………….. and PAN:……………………………., based on our assessment of the its Financials, existing Limits including BGs availed, we hereby certify that the Bank can provide maximum amount of **Rs……………………** (In Words) in the form of BG/Additional BG/PBG/Additional PBG as per the prescribed format in Annexure 5A and 5B enclosed herewith pertaining to NIT No…………………………..

This Certificate is issued at the request of **…………………………………….(name of the Bidder).**

Authorised Signatory

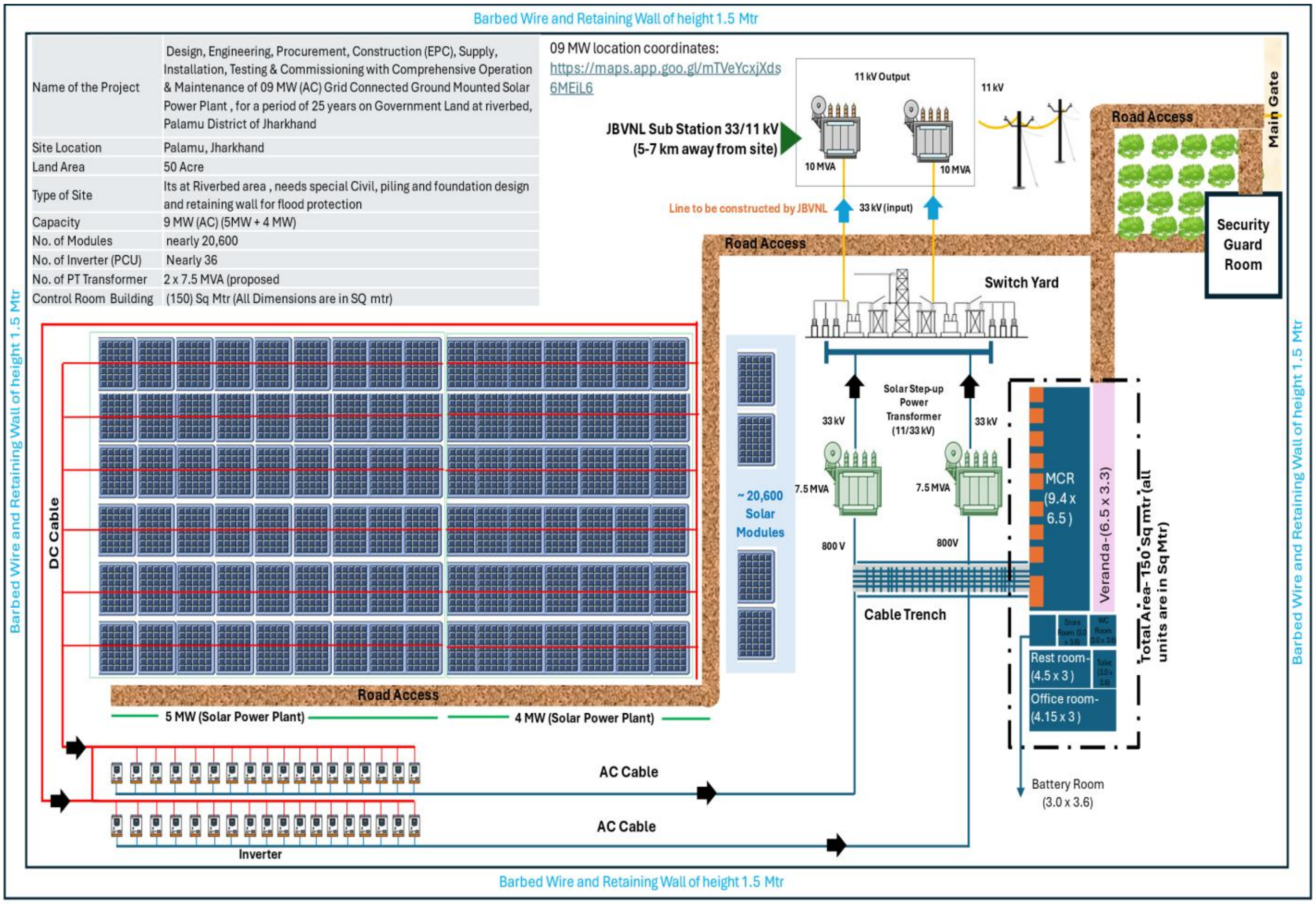
Name:

Designation:

Employee ID:

Branch:

ANNEXURE 10 : TENTATIVE CONCEPTUAL LAYOUT FOR 9MW SOLAR POWER PLANT



***Note**: The above drawing is a Tentative Conceptual drawing, the bidder has to develop a Detail Plant Layout Drawing of the solar plant and get it approved from JREDA prior to start of construction for 9 MW(AC) Solar Power Plant.*

The 9 MW (AC) Solar Power Plant shall be developed in two independent sections with separate power evacuation arrangements.

Section-I (5 MW): The inverter output of the **5 MW Solar Power Plant** shall be stepped up through a **7.5 MVA Solar Power Transformer** located at the solar plant. This transformer shall step up the voltage to **33 kV**. The **33 kV output** from this transformer shall be evacuated through a dedicated feeder and connected to a **10 MVA Power Transformer** installed at the **Jharkhand Bijli Vitran Nigam Limited (JBVNL) owned 33/11 kV Power Substation**, where the voltage shall be stepped down from **33 kV to 11 kV**.

Section–II (4 MW): Similarly, the inverter output of the **4 MW Solar Power Plant** shall be stepped up through a **separate 7.5 MVA Solar Power Transformer** installed at the solar plant. This transformer shall step up the voltage to **33 kV**. The **33 kV output** from this transformer shall be evacuated through a separate feeder and connected to a **10 MVA transformer at the JBVNL 33/11 kV Power Substation**, where the voltage shall be stepped down to **11 kV**.