

CIL Navikarniya Urja Limited
(A Subsidiary Company of Coal India Limited)

Tender Document

For

**Design, Engineering, Procurement & Supply, Construction & Erection, Testing, Commissioning,
Associated Transmission System and Comprehensive O&M for 5 Years of 35MW (AC) Solar PV
Power Plant at**

**One location of Satgram Area and 2 Locations of Kunustoria
Area, ECL
West Bengal, India.**

**(Only through limited e-Tender mode for the CIL Empaneled EPC Contractors for Solar
Projects)**



CIL Navi Karniya Urja Limited

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About the Company

CIL Navikarniya Urja Limited (CNUL), a wholly owned subsidiary company of Coal India Limited was incorporated on 16th of April, 2021 to venture into new business area of New and Renewable Energy (Non-Conventional) segment including Solar, Wind, Small Hydro, Biomass, Geo-Thermal, Hydrogen, Tidal, etc., along with other prevalent technologies/emerging technologies for development of non-conventional/clean & renewal energy Business.

Parent company Coal India Limited (CIL) is the state-owned coal mining corporate came into being in November 1975 is at the forefront of the nation's coal production in the Indian energy sector. CIL alone produces around 83% of country's entire coal output. In a country where 69% of the total electricity generation is coal based, CIL virtually empowers the nation's power sector. Around 80% of CIL's total supplies are catered to power sector.

Eastern Coalfields Limited (ECL) is the wholly owned subsidiary Company of CIL. ECL intends for Development of **35 MW (AC)** Grid Connected Solar PV Project at one location of Satgram and two Kunustoria area, ECL, West Bengal, India. CNUL has been awarded the job of providing PMC service for developing the 35 MW project through engagement of EPC Contractor.

The generated solar power from the proposed solar project will be utilized by ECL for captive consumption. CNUL endeavors to reduce energy charge of the Subsidiary by installing the proposed solar project.

About the Project

The envisaged 35 MW (AC)/ 47.25 MW (DC) Solar Power plant will be established through EPC contractor at one location of Satgram (Kalidaspur) and two locations of Kunustoria area (Mahabir and Amritnagar), ECL, West Bengal, India.

- ECL has planned to evacuate the Power generated from the 10 MW Kalidaspur Solar PV Plant at 33 kV level through 33/6.6 kV ECL sub-station at Kalidaspur. It has also been planned that supply and erection of transmission network will be done by WBSEDCL at ECL's cost on deposit basis. The power generated from Jorsha More Colony will be brought to Kalidaspur sub-station and it will be metered there. For the 12.5 MW Solar PV Plant at Amritnagar and 12.5 MW Solar PV plant at Mahabir collieries, the generated power from the Amritnagar project shall be evacuated to Mahabir Colliery via 3 kM OHTL. In Mahabir Colliery, the combined generation will be evacuated through a 3.5 kM double circuit 33 kV cable to existing WBSEDCL 33 kV OHTL near Ranigaunj Sub-Station (line connecting Bogra and Ranigaunj).
- Installation, Testing and Commissioning of Transmission line / cable from plant take off point to the interconnecting substations and bay(s) at substations shall be done by ECL at its own cost through WBSEDCL (on deposit basis). **Hence the erection of OHTL is kept out of the scope of EPC Contract.** After erection of the transmission line, WBSEDCL will handover the said OHTLs to ECL. The EPC Contractor shall maintain the OHTLs from the date of handing over the transmission lines to ECL (by WBSEDCL) and also during O&M period of 5 years at the cost of EPC Contractor. Safety, security, maintenance and operation of the said transmission line upto 5 years O&M period will be the sole responsibility of the EPC Contractor. The total estimate for the 12.5 kM transmission line by WBSEDCL is Rs. 8 Cr (excluding GST).
- ECL has already taken connectivity approval from WBSEDCL. ECL has also taken approval u/s 63 of electricity Act 2003 from the Ministry of Power, Govt of West Bengal for erection of transmission lines and maintaining the same. Any other statutory approval, if required to be taken during execution of the project, will be taken by the EPC Contractor at its own cost. ECL and CNUL shall extend required help to the EPC Contractor for obtaining such statutory approval.
- CNUL (on behalf of ECL) now issues this Tender for selection of EPC-cum-O&M contractor for the entire EPC work for the Project as well as O&M of the Project for 5 years after the project Commissioning date (COD) (to be executed through **ECL** after awarding work by **ECL**. CNUL will be responsible for award of the work to the selected EPC Contractor. Post-award activities, such as signing of contract agreement, contract execution, payment and other activities will be under **ECL's** scope. CNUL will provide PMC service during commissioning period as per the agreement between ECL and CNUL.

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e-TENDER NOTICE

1. Tenders are invited on-line on the website <https://coalindiatenders.nic.in> from the empaneled bidders having Digital Signature Certificate (DSC) issued from any agency authorized by Controller of Certifying Authority (CCA), Govt. of India and which can be traced up to the chain of trust to the Root Certificate of CCA, for the following work:

Description of work	Estimated Cost of Work (Including GST) (In INR)	Earnest Money (In INR)	Period of Completion(In Days)
Design, Engineering, Procurement and Supply, Construction, Erection, Testing and Commissioning of 35MW (AC) Solar PV Power Plants at one location of Satgram Area (Kalidaspur, 10 MW) and two locations of Kunustoria Area (Mahabir, 12.5 MW and Amritnagar, 12.5 MW) of ECL, West Bengal, India along with Comprehensive O&M of the plant and the associated transmission system (to be developed by WBSEDCL) for 5 Years thereafter.	Rs. 205,83,15,000/- (INR 205.8315 Cr) (inclusive of Supply cost, Work Cost and NPV of O&M cost for 5 years)	Rs. 50,00,000/- (INR 50 Lakh)	Total contract period: 2190 Days a) From date of commencement to COD: 12 Months (i.e. 365 days) b) Operation and Maintenance of Project: 1825 Days (i.e. 5 years) from COD

Guaranteed Energy and CUF Requirement:

Sl No.	Parameter	Value
1.	Net Electrical Energy Guaranteed Generation (NEEGG)	71.106 MU for first year with allowable degradation of 0.7% in subsequent year's w.r.t. immediate last year.
2.	Capacity Utilization Factor (CUF)	23.19 % for first year with allowable degradation of 0.7% in subsequent year w.r.t. immediate last year.

Tender inviting authority	Contact Person(s)/Tender Dealing Officer(s)
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