

Coal India Limited
(A Maharatna Company)

Tender no.: ECL/HQ/E&M/SOLAR/100_MW_BOW/50
Dated : 26.09.2024

Tender Document

For

Balance work on risk and cost basis for 100 MW (AC) Solar Photovoltaic Grid-Connected Power Plant of CIL at Bhadramali and Jabadia Village, Banaskata District at Gujarat and post commissioning O&M of the plant for 5 years.

(Only through open e-Tender)



(A Maharatna Company)

COAL INDIA LIMITED
COAL BHAWAN,
PREMISE NO-04 MAR,
PLOT NO-AF-III, ACTION AREA-1A,
NEWTOWN, RAJARHAT, KOLKATA-700156
Tel: +91-33-2534 6535, Fax- +91-33-2534 6546
Email: edene.cil@coalindia.in, website: www.coalindia.in

About the Company

- Coal India Limited (CIL) the state-owned coal mining corporate came into being in November 1975. CIL functions through its subsidiaries in 84 mining areas spread over eight (8) states of India. Coal India Limited has 352 mines (as on 1st April 2020) of which 158 are underground, 174 opencast and 20 mixed mines.
 - CIL Produces around 83% of India's overall coal production in India where approximately 57% of primary commercial energy is coal dependent, CIL alone meets to the tune of 40% of primary commercial energy requirement. The share of coal is expected to remain high at 48-54% till 2040 and accounts for 76% of total thermal power generating capacity of the Utility sector.
 - CIL is a Maharatna Company – a privileged status conferred by Government of India to select state owned enterprises in order to empower them to expand their operations and emerge as global giants. CIL has seven producing subsidiaries namely Eastern Coalfields Limited (ECL), Bharat Coking Coal Limited (BCCL), Central Coalfields Limited (CCL), Western Coalfields Limited (WCL), South Eastern Coalfields Limited (SECL), Northern Coalfields Limited (NCL) and Mahanadi Coalfields Limited (MCL) and one mine planning and consultancy company- Central Mine Planning & Design Institute (CMPDI). In addition, CIL has a foreign subsidiary in Mozambique namely Coal India Africana Limitada (CIAL). The mines in Assam i.e. North Eastern Coalfields is managed directly by CIL.
 - To realize its goal to cater the energy demand of country with coal and also through Renewable Energy, CIL has a target to become Net Zero Energy Company by 2026 by establishing 3 GW of solar PV power projects. CIL is currently exploring the following options for development of solar PV projects:
 - a) Development of solar PV projects by CIL and its subsidiaries at own land or any other suitable land at any location in India, as available.
 - b) Development of large-scale solar PV projects to be awarded based on competitive bidding / to be developed in solar parks / bilaterally identified projects / any other large-scale projects as applicable.
- Feasibility of execution of solar PV projects in CIL's available land as well as in any other suitable land at any location in India is being explored.
- (The above list is indicative and has been prepared based on current plan. CIL may modify the list in future at its own discretion)
- For detailed profile of company and past financial results, bidders may visit the CIL website: <https://www.coalindia.in/>.

About the Project

- Gujarat Urja Vikas Nigam Limited (GUVNL) floated a tender for procurement of 500 MW solar power through competitive bidding (followed by e-reverse auction) from Solar PV Power Projects to be set up in Gujarat through RfS No. GUVNL / 500 MW / Solar (Phase XII) dated 23.01.2021. As per the tender conditions, the successful bidder shall set up Solar PV Power Project including the transmission network (with grid connectivity) up to the Delivery Point at its own cost. All approvals, permits and clearances required for setting up of the Project (including transmission infrastructure, connectivity and land registration) and those required from State Government and local Bodies shall be in the scope of the successful bidder. The responsibility of getting the grid connectivity with GETCO / CTU shall entirely be of the Successful Bidder.
- CIL participated in the said tender with a quoted capacity of 100 MW (AC). Upon conclusion of the Reverse E-Auction on 22.03.2021, CIL was awarded the capacity of 100 MW (AC).
- CIL had issued one RFP for selection of EPC-cum-O&M contractor for the entire EPC work for the Project including acquisition and handover of encumbrance-free land (to CIL) as well as O&M of the Project for five (5) years from start of PG Test period.
- M/s Reflex Energy Limited (presently known as M/s Svaryu Energy Limited) emerged as the L1 bidder of the RFP and Work was awarded to them on 26.04.2021.
- M/s Svaryu Energy Limited had failed to complete the job within the schedule time. Accordingly, time extension was given to M/s Svaryu Energy Limited for 4 times upto 31.03.2024.
- GUVNL has also extended the time for completion of the project till 31.03.2024 (Schedule Commercial Operation Date i.e. SCOD). The PPA with GUVNL will be valid upto 6 months post SCOD. CIL has applied to GUVNL for further extension of SCOD.
- M/s Svaryu Energy Limited had submitted drawings/ designs/ reports like TL Route Survey, Soil Test Report, Site Selection Report, Design Basis Report, PVSyst Report, AC & DC SLD, GA Data sheet of Inverter, layout of 66 kV GSS, CMCS Building Layout, GA & Data Sheet of String Combiner Box/IDT/Power Transformer.
*** (The drawings/ designs/ documents are approved by CIL and is a part of this Tender Document for reference of the bidders: Appendix 20)*
- **Due to failure of M/s Svaryu Energy Limited to execute the Job in timely manner, the earlier contract was terminated on 23.02.2024. CIL is now intending to complete the balance of the work of the project by engaging a new EPC.**

- As per the drawings, the project has been designed for DC capacity of 146.50 MWp (46.50 % DC Overloading). The PVSyst report confirms the required NEEGG with this design and thus agreed by CIL.

*** (The AC & DC SLD is attached with the Tender Document for reference of the bidder: Appendix 20)*

- Some materials like MMS Columns (entire Quantity), MC4 Connectors (Male + Female), Y Connectors (Male + Female), HDPE Pipes, ESE Lighting Arrester are available at site.
- For Power Evacuation, 12 nos of Lighting Arrestors and equipment structures are at site. Tools & Tackels, Weather Monitoring System are also at site. Foundation, Building Columns, Roof Slab of CMCS Building is completed. Also foundation for Power Transformer has been done.

*** (A list of already executed job/ partially executed job is mentioned in the Tender Document for reference of the bidder. However, bidders are encouraged to visit the site for further verification/ satisfaction prior to bidding)*

- CIL agrees that the entire project can be developed over minimum 320 Acre of Land. However, the new EPC may freshly assess the requirement of land for commissioning of the project in totality (100 MW AC) and if bidder is in a view that additional land is required, cost for the same must be included in the bid cost. As on date, 212 Acre of land has been registered in the name of CIL. The new EPC contractor has to acquire the rest land part and to do the registration in the name of CIL. Pending Mutation and Conversion (u/s 63AA and 65B) will also be in the scope of the EPC. The details/ record of already mutated and converted land out of 212 acre registered land is available with the Officials posed at Patan and may be availed.
- Overall responsibility of the New EPC Contactor will be to take up the project work from “AS IS WHERE IS BASIS”, gainful utilization of the supplied materials and executed job, supply, erection of the left over work and successful commissioning of the entire project within 10 months from the date of commencement of work. Also, the New EPC will have to do the O&M of the Project for five (5) years from start of PG Test period.

Executed job (Tentative): Works Part of 100 MW Solar Project at Patan, Gujarat

(A) Main Control Room			
1	Foundations	1	Lot
2	Building Columns	1	Lot
3	Roof slab	1	Lot
(B) 66kV Switchyard			
1	Power Transformer, 60 MVA, foundation	2	Nos

Executed job (Tentative): Supply Part of 100 MW Solar Project at Patan, Gujarat

(A) Engineering, Land, Evacuation			
1	Submission of TL Route Survey	1.00	Lot
2	Submission of Soil Test Report	1.00	Lot
3	Submission of Site Selection Report	1.00	Lot
4	Submission of Design Basis Report	1.00	Lot
5	Submission of Pvsyst Report	1.00	Lot
6	AC & DC SLC	1.00	Lot
7	GA & Data Sheet of Inverter	1.00	Lot
8	Layout of 66KV GSS	1.00	Lot
9	CMCS Building Layout	1.00	Lot
10	GA & Data Sheet of String Combiner Box	1.00	Lot
11	GA & Data Sheet of IDT	1.00	Lot
12	GA & Data Sheet of Power Transformer	1.00	Lot
(B) Supply, Ex-Works, of Module Mounting Structure, pro-rata basis			
1	Columns	146.50	MWp
(C) BOS - Connectors, Lugs , Glands & Jointing Kits, Termination Kits			
1	MC4 Connectors (Male+female)	18600.00	Pairs
2	Y Connectors (Male+female)	9300.00	Pairs
3	HDPE Pipes	15000.00	Mtrs
4	ESE Lightening Arrester	50.00	Nos
(D) Evacuation system			
1	Lightening Arrester	12.00	Nos
2	Equipment Structures	1.00	Lot
(E) Tools & Tackles			
		1.00	Lot
(F) Weather Monitoring System			
		1.00	Lot

Executed job (Tentative): LAND Part of 100 MW Solar Project at Patan, Gujarat

1	Registration of Land (in the name of CIL)	212.00	Acre
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Partially Executed Job of 100 MW Solar Project at Patan, Gujarat

SI no	Description	Work Done:
(A) Installation:		
1	Tower & Beam Structures	GSS part pending, only PSS part done
2	Balance Equipment Structures	GSS part pending, only PSS part done
3	Transmission Line 66 KV DC	Foundation of 11 out of 74 towers done. All other works pending.
(B) Civil Works		
1	Site Preparation & Development	Erosion control measures pending
2	Peripheral Chain Link Fencing	Only Partially done.
3	Piling Foundation	30,000 pilling done (approx).
(C1) Supply: Solar PV modules		
A	Supply of Solar PV Modules at Project Site	1.59 MW supplied (540Wp Gautam Make)
(C2) Supply: BOS - Cables		
A	Cables from Modules to SMB -Black / Black+ Red, 6 Sq.mm., copper	114 KM Supplied
B	Cable from Inv. Duty Trafo to ICOG Panel to Multi feeder HT Panel, 33 kV 3C X 185 Sq.mm, Aluminium, XLPE armoured	2008 M supplied
C	Cable from Main HT Panel 1to HT Panel 2 and to 33kV Metering Unit + Power Trafo, 33 kV 3C X 300 Sq.mm, Aluminium, XLPE armoured	456 M supplied
<u>Evacuation system</u>		
A	Equipment Structures	for PSS supplied, for GSS is due
B	Circuit Breaker	for PSS supplied, for GSS is due
C	Tower & Beam Structures	for PSS supplied, for GSS is due

(The above list of executed job is tentative. Bidders are requested to submit the bids after detailed assessment of the executed job. For site visit and other details, Officers of CIL posted at PATAN may be contacted)

Sl No.	Name	Designation	Mobile No.
1.	Shri Deepak Jangid	Dy Manager (E&M)-Solar (Posted at Patan)	9680543389
2.	Shri Asanath Sidh	Asst. Manager (Civil)- Solar (Posted at Patan)	9076237005

Note:

GETCO has approved connectivity at Jangral Sub-Station. The said Sub-station is approximately 15 kM from the project site. All approvals (GETCO Connectivity approval, approval u/s 68 by Govt of Gujarat, Connectivity Agreement, approved drawings (by GETCO) for bays at Jangral Sub-Station etc) are enclosed with this bid document.

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e-TENDER NOTICE

1. Tenders are invited on-line on the website <https://coalindiatenders.nic.in> from the eligible 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)
<p>Balance work on risk and cost basis for 100 MW (AC) Solar Photovoltaic Grid-Connected Power Plant of CIL at Bhadramali and Jabadia Village, Banaskata District at Gujarat and post commissioning O&M of the plant for 5 years.</p> <p><i>(Note: Drawings/ Designs submitted by earlier EPC for this project will be a part of this Tender Document. However, bidder can review/ modify the same for successful completion of the balance of the work)</i></p>	<p>Rs. 410,16,00,000</p> <p>(Rupees Four Hundred Ten Crore Sixteen Lakh only)</p>	<p>Rs. 50,00,000</p> <p>(Rupees Fifty Lakh only)</p>	<p>Total contract period: 2125 Days</p> <p>a) From issuance of LOA to COD: 300 Days (i.e. 10 months)</p> <p>b) Operation and Maintenance of Project: 1825 Days (i.e. 5 years) from COD</p>

Guaranteed Energy and CUF Requirement:

Sl No.	Parameter	Value
1.	Net Electrical Energy Guaranteed Generation (NEEGG)	253.2 Million Unit for first year with allowable degradation of 0.5% in subsequent year w.r.t. immediate last year
2.	Capacity Utilization Factor (CUF)	28.9 % for first year with allowable degradation of 0.5% in subsequent year w.r.t. immediate last year

TIA and Contact Person Details:

Tender inviting authority	Contact Person(s)/Tender Dealing Officer(s)
GM/ HOD - SOLAR, CIL gmsolar.cil@coalindia.in	1. SUBHAJYOTI JANA Manager (E&M)-Solar, CIL Mob- 9434797102

	Email: subhajyoti.jana@coalindia.in 2. ABHINAV KUMAR Dy. Manager (E&M)-Solar, CIL Mob- 9433031045 Email- abhinavk.cil@coalindia.in
For any Portal related queries please call at 24 x 7 Help Desk Number- 0120-4001 002, 0120-4001 005, 0120-6277 787	

2. Time Schedule of Tender: As per Portal.

Note: The auto extension of submission of bid shall be applicable as per details mentioned in clause no.14 of NIT.

3. Earnest Money Deposit:

The bidder will have to make the payment of EMD through ONLINE mode only. In Online mode the bidder can make **payment** of EMD either through **NET-BANKING** from designated Bank(s) or through **NEFT/RTGS** from any scheduled Bank(s).

NET-BANKING: In case of payment through net-banking the money will be immediately transferred to CIL/ Subsidiary's designated Account.

NEFT/RTGS: In case of payment through NEFT/RTGS from any scheduled bank(s), the bidder will have to make payment as per the Challan(s) generated by system on e-Procurement portal. **The** payment of EMD through NEFT/RTGS mode should be made well ahead of time to ensure that the EMD amount is transferred to CIL/ Subsidiary account before submission of bid.

NOTE 1: After successful payment of EMD either through Net Banking or NEFT/RTGS, bidder is advised to log on to <https://coalindiaticenders.nic.in> and click on "**Payment Verification Button**" to check the transaction status of EMD.

NOTE 2: Bidder is advised **not to pay EMD through IMPS mode** as such payments are not acceptable for submission of bid by the system.

NOTE 3: In case of payment of EMD through NEFT/RTGS mode, bidder needs to pay the EMD from the scheduled bank by visiting their branch.

The Bidder will be allowed to submit his/her/their bid only when the EMD is successfully received in CIL/ Subsidiary's designated account and the information flows from Bank to e-Procurement system.

In online payment of EMD, if the payment is made by the bidder within the last date and time of bid submission but not received by CIL/ Subsidiary within the specified period due to any reason(s) whatsoever then the bid will not be accepted. However, the EMD will be refunded back to the bidder.

Note: If any information and document submitted by the bidder is found to be false/ incorrect at any time, department may cancel their Bid and action as deemed fit may be taken against them, including termination of the contract,