

COAL INDIA LIMITED
(A Government of India Enterprise)



REQUEST FOR EXPRESSION OF INTEREST

FOR

**EMPANELMENT OF OWNER'S ENGINEERS-CUM-PROJECT
MANAGEMENT CONSULTANTS FOR SOLAR PV PROJECTS OF CIL
AND ITS SUBSIDIARIES**

EOI Document No.: CIL/SOLAR/2022/55 dated 12.05.2022

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1.0 Introduction

- 1.1 Coal India Limited (CIL), the state-owned coal mining corporate, came into being in November 1975. CIL functions through its subsidiaries in 85 mining areas spread over eight (8) states of India. Coal India Limited has 345 mines (as on 1st April, 2021), of which 151 are underground, 172 open cast and 22 mixed mines. CIL further operates 13 coal washeries (11 coking coal and 2 non-coking coal).
- 1.2 CIL Produces around 83% of India's overall coal production in India. Where approximately 57% of primary commercial energy is dependent on coal, CIL alone meets around 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.
- 1.3 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 named 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 are managed directly by CIL. CIL also has a subsidiary named CIL Navikarniya Urja Limited (CNUL) for development of renewable energy projects, and another subsidiary named CIL Solar PV Limited for manufacturing of solar PV ingot-wafer-cell-module.
- 1.4 To realize its goal to cater the energy demand of country also through Renewable Energy, CIL has a target to become Net Zero Energy Company by 2024 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, primarily for self-consumption.
 - b) Development of large-scale solar PV projects to be awarded based on competitive bidding / bilaterally identified projects, at any location in India, for sale to discoms / SECI / any other buyer as suitable.The above list is indicative and has been prepared based on current plan. CIL may modify the list in future at its own discretion.
- 1.5 Accordingly, CIL plans to empanel Owner's Engineer-cum-Project Management Consultants meeting the specified eligibility criteria and willing to be associated with CIL for support in development and O&M of its upcoming solar PV projects. The Owner's Engineer-cum-PMC Consultants will be empaneled for three different categories based on the capacity of the Solar PV plants as per the following:



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Category	Solar PV Plant Capacity
Category-I	Up to 50 MW _{DC}
Category-II	Above 50 MW _{DC} and up to 200 MW _{DC}
Category-III	Above 200 MW _{DC}

- 1.6 The Applicant will have the discretion of applying for any one or two or all of the above categories, and may be empaneled by CIL subject to fulfillment of the eligibility criteria.
- 1.7 **Tenure of Empanelment:** This empanelment shall be valid for a period of two (2) years from the date of Empanelment with provision for further extension of up to another two (2) years in two tranches of one (1) year each.
- 1.8 Over the course of the empanelment tenure, CIL possesses the right to empanel any new Owner's Engineer-cum-PMC Consultant as per the sole discretion of CIL.
- 1.9 Subsequent to the empanelment of Owner's Engineer-cum-PMC Consultants, as and when opportunities for development of solar PV projects will come, CIL will conduct project-wise bidding amongst the empaneled Consultants only, for selection of Owner's Engineer-cum-PMC Consultant for each of those projects. Details of the concerned project and associated requirements will be specified by CIL during the project-specific bidding. Based on the bidding outcome, selection of Owner's Engineer-cum-PMC Consultant will be done for the concerned solar PV project. CIL will have the discretion to follow different bidding approaches for different solar PV projects based on the project-specific requirements as may deemed fit by CIL.



2.0 Scope of Work

2.1 The scope of work shall include but not limited to the following:

- I. **Pre-bid activities** (applicable in case of participation of CIL in competitive bids): CIL is actively participating in competitive bids in solar power projects in India. The selected firm will be responsible for initial engineering estimate and cost estimate as preparatory step for taking part in the bid. Activities will include the following:
 - a) Based on indicative site-related information, estimation of tentative annual energy generation.
 - b) Preparation of tentative BOQ based on project assumptions.
 - c) Arriving at project cost estimates based on above inputs.
 - d) Identification of optimization avenues with the aim to arrive at competitive tariff.
- II. **Activities during post-bid stage or otherwise after identification of project** (after the solar power project is awarded upon conclusion of competitive bidding, or otherwise after identification of any solar power project to be developed by CIL or its subsidiaries on own land or any other suitable land):
 - A. **Engineering study and Bid management support:**
 - a) Preliminary Land Survey/Site Inspection and undertake necessary activities to assess suitability of land for setting up solar power project.
 - b) Estimation of capacity and annual energy generation of the solar power plant.
 - c) Preparation of detailed BOQ and Cost Estimates for the project.
 - d) Preparation of Detailed Project Report (DPR) for assessment of techno-commercial feasibility of the project.
 - e) The DPR shall include environmental and social impact assessment and Environmental and Social Impact Management Plan
 - f) Preparation of detailed specifications, drawings and project execution plan for the solar power project.
 - g) Preparation of tender documents for selection of suppliers / EPC contractors as necessary.
 - h) Assist during pre-bid query stage and during the evaluation of the tenders as well as during award of contracts to suppliers / EPC contractors as necessary.
 - B. **Review and Approval of drawings / documents submitted by suppliers / EPC Contractors, including but not limited to the following (the below list is indicative):**
 - a) Engineering data, specifications, design-basis etc.
 - b) Plant layout drawing.
 - c) Drawings of civil works including foundation.
 - d) Electrical installation drawings.
 - e) Layout plan for control & metering station, unit sub-station, internal OH



- lines, control room, trenches, earthing, lighting, fencing gate etc.
- f) Checking & approval of detailed Bill of Materials as per drawings & specifications.
 - g) Checking of job completion schedule of work for various activities related to erection of structures, Electrical installations, Erection and Commissioning of PV modules, inverters, and balance of plant equipment.
 - h) Checking of quality assurance plan for major equipment.
 - i) Check list for Field Quality Plan for structure, foundations and electrical installations.
 - j) Any other relevant project-related document as submitted by the contractor.

C. Site Supervision:

- a) To supervise activities of construction of foundation, erection of structures, Installation of PV modules, Inverters and Balance of System (BOS), plant commissioning.
- b) Site visits during the erection and commissioning period as required.
- c) Inspection (including quality check) and approval of all equipment / materials after receipt at site.
- d) Checking and certifying Field quality / plan of erection work.
- e) Witnessing pre-commissioning and commissioning tests of all equipment.
- f) Inspecting the outcomes of commissioning tests against the design / plan, and in case of any deviation, analyze the probable causes and provide support for resolution of the deviations.
- g) Submission of Progress Report including PERT / Bar charts incorporating all the activities required for the completion of the project well in time.
- h) Checking of O&M-related documents and plans submitted by the EPC contractor.
- i) Monitoring of Environmental and Social safeguard measures during the construction- commissioning phase of the project
- j) To witness and review the Performance test.

D. Other Responsibilities:

- a) Checking and certification of invoices/bills submitted by the suppliers / EPC contractors against milestone activities to Owner for payment to Contractor.
- b) Review of contract documents and all other documents related to various statutory approvals/ clearances etc.
- c) Provide necessary assistance / back up in liaison work with concerned authorities for the implementation of project.
- d) Providing all required services and assistance for replying to the queries of concerned Government Departments/ statutory bodies and agencies on the progress and any other aspect related to the project.
- e) Provide necessary back up / technical assistance for co- ordination



with external agencies viz. Insurance agencies etc.

- f) To ensure contractors carry out their activities in accordance with the safety plan during the construction period of the project.
- g) Providing inputs for efficient project management in line with good industry practices.
- h) Providing expertise as and when required for plant construction and commissioning.

III. **Operation & Maintenance (O&M) review:** Review/Supervision of the Operation & Maintenance (O&M) of the plant carried out by the O&M contractor, for one (1) year (or for any other period as may be decided at the time of award of work or during any other suitable stage). Tasks will include but not limited to the following:

- a) Monitoring of actual O&M activities vis-à-vis the plan.
- b) Monitoring of plant performance parameters vis-à-vis the design / guaranteed levels.
- c) Identification of deviation of activities and/or performance against plan / design, and root-cause analysis of the same.
- d) Providing supports, as necessary, for resolution of the deviation.
- e) Providing inputs for optimization of O&M performance in line with good industry practices.
- f) Monitoring of Environmental and Social safeguard measures during O&M phase of the project.
- g) Providing expertise as and when required for plant O&M during the tenure of engagement.

2.2 The above scope of work is indicative. Detailed scope of work shall be specified by CIL during the project-specific assignments on case-to-case basis.

2.3 Works will be assigned to the Consultant only when such relevant opportunity arises, such as issuance of any tariff-based competitive solar bid in the market, or identification of any solar power project for development by CIL or its subsidiaries on own land or any other suitable land.

2.4 CIL reserves the right to engage Owner's Engineer-cum-PMC Consultant for the entire or part of the activities listed under the scope of work.

2.5 CIL reserves the right to engage other agencies for the assignments listed under the scope of work related to its solar power projects.



3.0 Eligibility Criteria for Empanelment

3.1 For the purpose of Empanelment, the Applicants shall be evaluated on the basis of the following Eligibility Criteria. The Applicant would be liable to disqualification if he has made misleading or false representation or has deliberately suppressed the information in the forms, statements and enclosures required in the Application for Empanelment.

3.2 General Eligibility Criteria:

- a) The Applicant shall be an entity or consortium of entities, where entity means a body corporate incorporated in India under the Companies Act, 2013 and its amendments thereof or any other relevant law in India, as applicable. A maximum of three members shall be allowed in case of a consortium, out of which, one member must be identified as the Lead member.
- b) The Applicant entity or entities (in case of a consortium) must have PAN and GSTIN.
- c) The Applicant entity or entities (in case of a consortium) should not be currently debarred or blacklisted by any of the Central or State Governments / Government Department / PSU / autonomous organizations / multilateral donor institutions. It should not have employed any public servant dismissed / removed or person convicted for an offence involving corruption or abetment of such offences. Director(s)/Owner(s)/Proprietor/Partner(s) of the Applicant entity/entities should not have been convicted by any court of law for offences involving corrupt and fraudulent practices including moral turpitude in relation to business dealings with the Government of India or CIL or CIL's subsidiaries during the last five (5) years.
- d) One Applicant entity (or its Parent / Group company) can submit only one Application (as a sole Applicant or as part of a consortium). If it is found that an Applicant entity (or its Parent / Group company) has submitted more than one Application, CIL will summarily reject all the Applications submitted by the said Applicant entity (or its Parent / Group company).

Where Group Company means any company which is—

- (A) a holding, subsidiary or an associate company of the Applicant Entity; or
- (B) a subsidiary of a holding company to which the Applicant Entity is also a subsidiary;

Here, Holding, Subsidiary or Associated Company will have meaning as guided by the Companies Act, 2013 and its amendments thereof or any other relevant law in India, as applicable.

Self-attested copy of documents mentioned below must be submitted along with application as documentary evidence:

- i) GSTIN Registration.



- ii) PAN Card.
- iii) Certificate of Incorporation from Registrar of Companies in case applicant is a company.
- iv) Registered Partnership Deed in case applicant is a partnership firm.

In case of a consortium, the above documents should be furnished for each member of the consortium.

- v) In case of a consortium, the Applicant shall furnish a Memorandum of Understanding (MoU) as a documentary evidence for formation of the consortium. The date of signing of MoU and the effective date of MoU should be prior to the end date for submission of Application under this EOI.
- vi) The information about the Applicant should be furnished as per format provided in Annexure-2.
- vii) Declaration on blacklisting / banning should be furnished as per format provided in Annexure-4.
- viii) Authorisation for DSC as per format provided in Annexure-11.
- ix) The format for Pre-Contract Integrity Pact (as per Annexure-9) should be initialled by the Applicant.

3.3 Technical and Financial Eligibility Criteria:

A. Minimum Qualifying Requirement (MQR):

A.1. Past Experience

(i) For Category-I

Bidder should meet the any of the following criteria for similar nature of work in last 7 (seven) years ending last day of month previous to the one in which bid applications are invited:

One completed similar project of capacity 25 MW_{DC}

OR

Two completed similar projects each of capacity 12.5 MW_{DC}

OR

Three completed similar projects each of capacity 8.5 MW_{DC}

(ii) For Category-II

Bidder should meet the any of the following criteria for similar nature of work in last 7 (seven) years ending last day of month previous to the one in which bid applications are invited:

One completed similar project of capacity 100 MW_{DC}

OR

Two completed similar projects each of capacity 50 MW_{DC}



OR

Three completed similar projects each of capacity 34 MW_{DC}

(iii) For Category-III

Bidder should meet the any of the following criteria for similar nature of work in last 7 (seven) years ending last day of month previous to the one in which bid applications are invited:

One completed similar project of capacity 150 MW_{DC}

OR

Two completed similar projects each of capacity 75 MW_{DC}

OR

Three completed similar projects each of capacity 50 MW_{DC}

Note:

- I. Similar nature of work or similar project consists of "Owner's Engineering Service/ Lender's Engineering /Engineering Consultancy Service for solar power project".
- II. The date of completion of work should be during last 7 (seven) years ending last day of month previous to the one in which bid applications are invited.
- III. One calendar year means 365 days
- IV. **In case of a consortium, the collective experience of all the consortium members shall be considered.**
- V. **The similar work done by the Parent / Group / JV company of the Applicant entity or entities (in case of a consortium) shall be considered. However, the Applicant entity or entities (in case of a consortium) should submit necessary evidences to prove their relation with the Parent / Group / JV company, whose credentials have been cited. Here Group Company means such entity as explained earlier in this document in Clause 3.2.**

Data to be furnished by Bidder for **Clauses A.1.** of this tender (as per Annexure-7a, 7b, and 7c as applicable):

- i) Description of scope of work for each of the experiences cited.
- ii) Work order Number /Agreement Number of each experience.
- iii) Name & address of Employer/Work Order Issuing authority of each experience.
- iv) Capacity (in MW_{DC}) of solar power project against each experience.
- v) Name and Location of the solar power project
- vi) Start date & end date of each experience.
- vii) Value of the contract for each experience.

Scanned copy of documents to be uploaded by Bidders (CONFIRMATORY DOCUMENT) for **Clauses A.1.** of this tender:

- **Applicants are required to submit against each cited work experience, copies of Contract/Work Order/LOA/LOI and Completion Certificate issued by the employer (In absence of Completion Certificate issued by the Employer, Applicant can also submit self-certified document duly signed by the Applicant's statutory auditor clearly indicating the details specified in sl. No. i to vii above. The self-certified document**