

COAL INDIA LIMITED
(A Government of India Enterprise)



REQUEST FOR EXPRESSION OF INTEREST

FOR

**EMPANELMENT OF EPC-CUM-O&M CONTRACTORS FOR
DEVELOPMENT AND O&M OF GROUND MOUNTED/FLOATING
SOLAR PV POWER PROJECTS OF CIL AND ITS SUBSIDIARIES**

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Table of Contents

1.0	Introduction	3
2.0	Scope of Work.....	5
3.0	Eligibility Criteria for Empanelment	6
4.0	Instructions to the Applicants	9
5.0	List of Annexures.....	15
	Annexure-1: Covering Letter	16
	Annexure-2: General information of the Applicant	19
	Annexure-3: Format for Undertaking	21
	Annexure-4: Declaration of Blacklisting / Banning	22
	Annexure-5: Power of Attorney for Authorized Signatory	23
	Annexure-6: Power of Attorney for Lead member of consortium	25
	Annexure-7a: Details of Applicant's experience for Category-I.....	27
	Annexure-7b: Details of Applicant's experience for Category-II	28
	Annexure-8: Financial information of the Applicant	29
	Annexure-9: Pre-contract Integrity Pact.....	30



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 84 mining areas spread over eight (8) states of India. Coal India Limited has 352 mines of which 158 are underground, 174 opencast and 20 mixed mines.
- 1.2 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 further operates 12 coal washeries, (10 coking coal and 2 non-coking coal).
- 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 that is 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.
- 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.
 - 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.)

- 1.5 Accordingly, CIL plans to empanel EPC-cum-O&M Contractors meeting the specified eligibility criteria and willing to be associated with CIL for development and O&M of its upcoming solar PV projects. The EPC-cum-O&M Contractors will be empaneled for two different categories based on the capacity of the Solar PV plants as per the following:



Request for EOI: Empanelment of Solar PV Power Project EPC-cum-O&M contractors

Category	Solar PV Plant Capacity
Category-I	Up to 100 MWp
Category-II	Above 100 MWp

- 1.6 The Applicant can either apply for both the categories or for any one of the categories, and may be empaneled by CIL subject to fulfillment of the eligibility criteria.
- 1.7 After completion of one (1) year of the empanelment term as specified in this Application document, CIL possesses the right to empanel any new EPC-cum-O&M Contractor, if the said EPC-cum-O&M Contractor meets the eligibility criteria as stipulated in this Application document.
- 1.8 Subsequent to the empanelment of EPC-cum-O&M Contractors, as opportunities for development of solar PV projects will come, CIL will conduct project-wise bidding amongst the empaneled Contractors only, for selection of EPC-cum-O&M Contractor for each of those projects. Details of the concerned project and requirements for minimum technical standards will be specified by CIL during the project-specific bidding. Selection of EPC-cum-O&M Contractor will be done for the concerned solar PV project based on techno-commercial and financial evaluation specific to the concerned project. The selected Contractor will be expected to provide best-in-class technologies. CIL will have the discretion to follow different bidding approaches for different types of 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 Design, Engineering, Testing, Supply, Packing and Forwarding, Transportation, Unloading, Storage, Installation and Commissioning of grid connected floating and/or ground mounted Solar PV projects (to be awarded to multiple/single bidders/applicants) on turnkey basis, as well as Comprehensive Operation & Maintenance of the project for a period of five (5) years from the date of successful commissioning. In particular, the scope of work shall include (but not limited to) the following:

- a) Design, engineering, testing, supply, packing and forwarding, transportation, unloading, storage, installation, and commissioning of Solar Photo Voltaic Plant based on open category PV modules and cells;
- b) Sourcing of suitable land for proposed SPV project (applicable for Projects across PAN-India) and include the land provisioning in the offer.
- c) Topographical survey & Geo-Technical investigation of the land and bathymetry survey of water body (if applicable);
- d) Site-grading, clearing of vegetation;
- e) Design and construction of foundation & mounting structure for SPV panels (if applicable);
- f) Supply of floaters, Installation, anchoring, fixing of floaters for SPV panels, pathways for the floating system (if applicable);
- g) Arranging for power supply and water supply for construction purposes;
- h) Construction of inverter stations with Power conditioning unit, associated LT and HT switchgear;
- i) Construction of Central Monitoring and Control Station with switchgear room, SCADA room, Store room, Battery room with all electrical fitting and furniture, security cabin etc.;
- j) All associated electrical and civil works required for interfacing with grid (i.e. transformers, breakers, isolators, panels, protection system, cables. metering as per SLD, earthing of transformer etc.) and evacuation of power to HV/EHV Pooling station;
- k) Module cleaning system (wet or dry method) including supply and installation of all accessories;
- l) Construction of approach road, internal road, pathways, peripheral boundary wall etc. as per specification and any other work as applicable for development of the site;
- m) SCADA system for remote monitoring and control of Inverters with all hardware & software;
- n) Supply of Mandatory spares;
- o) Comprehensive operation & maintenance of the plant and transmission system following applicable standards, regulations and statutes for a period of five (5) years from the date of successful commissioning of the project.

2.2 Detailed scope of work along with technical standards shall be specified by CIL during the project-specific bidding.