

# JINDAL INDIA THERMAL POWER LTD

## REQUEST FOR QUALIFICATION (RFQ) (INTERNATIONAL COMPETITIVE BIDDING)

FOR ENGINEERING, PROCUREMENT & CONSTRUCTION OF THREE SETS OF BOILER (SG), TURBINE GENERATOR (TG) ALONGWITH ALL ASSOCIATED AUXILIARIES INCLUDING CONTROL & INSTRUMENTATION (C & I) PACKAGE ON EPC BASIS EACH SET HAVING 660 MW+ 10% CAPACITY WITH SUPER-CRITICAL PARAMETERS FOR THE EXPANSION PROJECT AT ORISSA, INDIA AND THE UPCOMING PROJECT IN CHHATTISGARH, INDIA.

### Jindal India Thermal Power Ltd (JITPL) Overview

The USD 600 Million B.C Jindal Group has been operating for the last five decades in India and is known for its multi-product and multi-location manufacturing establishments. The group's companies are Jindal Poly Films Ltd., Jindal Photo Ltd, Jindal India Ltd., Rexor SA France and Jindal India Thermal Power Ltd (JITPL). JITPL is setting up an expansion project of 1X660 MW+10% capacity with super-critical parameters at its existing site of 2x 600 MW Coal based power plant at Orissa and a green field power project of 2X660 MW + 10% within the State of Chattisgarh, India. JITPL invites proposals from reputed Bidders in response to this RFQ for Boiler, Turbine Generator along with all associated auxiliaries including C& I package on EPC basis as defined hereunder.

### Project Information: -

OWNER	:	Jindal India Thermal Power Ltd. Plot No. 12, Sector B-1, Local Shopping Complex, Vasant Kunj New Delhi – 110070, India
CONSULTANT TO PROJECT	:	TATA Consulting Engineers Limited Sheriff Centre, 73/1, St. Mark's Road, Bengaluru - 560001, India

The project details for both the projects are as tabulated below:

Particulars	Details
<b>PROJECT</b>	
Orissa Project	: 1 x 660MW + 10% Coal Based Super-Critical Thermal Power project at Orissa (Expansion Project).
	And
Chhattisgarh Project	: 2 x 660MW + 10% Coal Based Super-Critical Thermal Power Plant at Chhattisgarh.
<b>LOCATION</b>	
Orissa Project	Village Derang, Distt. Angul, State of Orissa, India Latitude: 21° - 7' - 00" N

Particulars	Details
	Longitude: 85° - 0' - 00" E
<b>Chhattisgarh Project</b>	Village Lohakhan, Distt. Raigarh, State of Chhattisgarh, India Latitude: 21° - 53' - 55" N Longitude: 83° - 27' - 53" E
<b>SOURCE OF COAL</b>	
<b>Orissa Project</b>	Mandakini Coal Block, Talcher, Orissa (Company owns captive coal block allotted along with other two partners) Coal linkage from MCL Coalfields, Talcher, Orissa.
<b>Chhattisgarh Project</b>	For Chattisgarh Coal linkage from Mand -Raigarh Coal fields proposed
<b>SOURCE OF WATER</b>	
<b>Orissa Project</b>	Brahmani River
<b>Chhattisgarh Project</b>	Mahanadi River
<b>ACCESS TO SITE</b>	
<b>Orissa Project</b>	Road : About 35kM North-West of Talcher Rail : Nearest Railway Station Talcher
<b>Chhattisgarh Project</b>	Road : About 18kM from Raigarh town Rail : Nearest Railway Station is Raigarh about 18 kM away from site on Raigarh- Jharsuguda Broad Gauge section of South Eastern Main line

The brief scope of work, pre-qualification requirements and information to be submitted are given below:

**1. Scope of Work as one package for Boiler, Turbine & Generator, Control & Instrumentation including Boiler and Turbine integral controls along with all associated auxiliaries**

Detailed design including associated civil design, engineering, manufacturing, shop fabrication, assembly, testing and inspection at supplier's works, packing, dispatch, shipping, delivery at Indian Port/unloading at Indian Port, delivery from Indian port to site in case of imported equipment and delivery/ unloading at site for indigenous equipment, preservation and storing at site, insurance up to time of handing over, erection, testing, start-up, commissioning, successful performance testing of the Boiler, Turbine & Generator, C & I with all associated auxiliaries, including boiler & turbine integral controls on EPC basis for the proposed coal based Thermal Power Plants.

## **2.0 BID QUALIFICATION REQUIREMENTS**

**Bidders should meet the qualifying requirements stipulated hereunder:**

### **A. Technical**

#### **I.**

- (a) The bidder (Refer ClauseNo.3.1 for explanation of LICENSOR OR LICENSEE & Refer ClauseNo.3.2 for explanation of LICENSEE) should have designed, engineered, manufactured, installed, tested and commissioned with Indian coal of more than 40% ash content at least two (2) units of 500 MW or higher capacity of the type to be offered in the bid for the project with Supercritical parameters.
- (b) Out of the above, at least two (2) sets of Boiler with auxiliaries for Boiler package and Steam Turbine Generator with auxiliaries for TG package should have been in successful commercial operation for the last three (3) years and logged not less than 20,000 operating hours each as on the date of submission of RFQ.
- (c) The bidders for TG Package who meet the requirements stipulated above except that they do not manufacture the above capacity electric generators, may offer the generator of another manufacturer of requisite proven track record.
- (d) Bidders who are not the manufacturers of BTG and are EPC (Engineering, Procurement and Construction) contractors may also be qualified subject to submission of Joint Deed of Undertaking (JDU) with the Associated Companies who are manufacturers of Boiler, Turbine & Generator. The JDU shall specifically mention that in case the bidder gets the award of the contract, the Associated Companies shall comply to all the requirements of the Bidder mainly in respect of the technical specifications, the quality requirements, the delivery schedule, Performance Guarantees and the availability of experts for construction supervision and commissioning of the plant. The Associated companies should meet the qualification criteria mentioned in Para (a), (b) & (c) under Bid Qualification Requirements.

#### **For Control & Instrumentation (C & I) portion**

Bidders who are not the manufacturers of C & I and are EPC (Engineering, Procurement and Construction) contractors may also be qualified subject to submission of Joint Deed of Undertaking (JDU) with the Associated Companies who are manufacturers of C & I. The JDU shall specifically mention that in case the bidder gets the award of the contract, the Associated Companies shall comply to all the requirements of the Bidder mainly in respect of the technical Specifications, the quality requirements, the delivery schedule, Performance Guarantees and the availability of experts for construction supervision and commissioning of the plant. The Associated Companies should have designed, manufactured, supplied, tested and commissioned at least two (2) nos. of Distributed Control System (DCS) of similar capacity or higher capacity for coal fired power plants in the past Five (5) years. Out of these two, at least one unit shall have completed three (3) years of satisfactory commercial operation of DCS. The type and version of DCS offered shall be state of the art system which is in satisfactory commercial operation for a period of not less than 20000 hours.

### **B. Financial**

The Bidder shall have adequate financial resources to execute the Contract concurrently with his other commitments and shall meet the following conditions: -

- a) The Bidder shall have during the last three financial years an Average Annual Turn Over of not less than Rs.15,000 million (US\$ 375 million) or its equivalent in any other currency.
- b) In case the bidder is EPC contractor, the financial criteria mentioned in (a) above shall be met by either the Bidder or the Associated companies, individually or jointly

### **3.0 SPECIFIC REQUIREMENTS-FOR LICENSOR OR LICENSEE**

(To be met for each package separately)

3.1 The manufacturer (LICENSOR OR LICENSEE) shall furnish satisfactory evidence to establish the following without any ambiguity that:-

- a) He is a qualified manufacturer of Boiler and/or Turbine & Generator who regularly manufactures the equipment and has adequate technical knowledge and practical experience.
- b) He is a qualified manufacturer of C & I who regularly manufactures the equipment and has adequate technical knowledge and practical experience.
- c) He has adequate plant and manufacturing capacity available to perform the works properly and expeditiously within the time period specified.
- d) He has adequate field service organization to provide the necessary field supervision and management services required to successfully erect, test and commission the equipment as required by the contract.
- e) He has established quality assurance systems and organization designed to achieve high levels of equipment reliability, both during his manufacturing and field supervision activities.

3.2 The manufacturer (LICENSEE) shall meet the following requirements and shall submit the documents to purchaser on demand.

- a) Any design including engineering undertaken by the LICENSEE shall be approved by the LICENSOR.
- b) Manufacture by the LICENSEE shall be done with the approval of the LICENSOR and owner under a quality assurance program approved and monitored by the LICENSOR.
- c) LICENSEE must furnish backup guarantee from the LICENSOR for individual and over all performance of the equipment supplied under the contract including conceptual engineering and system design.
- d) The LICENSEE agreement should be valid for a period of five years from the date of successful completion of trial operation of this equipment.
- e) LICENSOR's quality assurance standards to be followed by the LICENSEE shall be made available to the owner or owner's inspector or his authorized representative.
- f) LICENSOR's technical support will be made available as required by the owner in answering owner's technical queries by way of correspondence and participation in coordination meetings during the execution of the contract.

### **4.0 INFORMATION REQUIRED.**

The following information is to be provided by the Bidder in response to this RFQ:

- a) Bidder shall furnish their audited profit and loss account and balance sheet for the last three (3) years.
- b) Experience list as per the enclosed **Annexure-1**

- c) Letter of Authority for the authorized signatory.
- d) Documentary evidence to satisfy the qualifying requirement mentioned in Sr.No.2 above (Bid Qualification Requirements).
- g) Affidavit on a non-judicial stamp paper of Rs.100/- that the Bidder shall submit JDU as mentioned above with Associated companies at the time of submission of the Request for Proposal (RFP), if applicable.
- h) The Associated companies shall furnish all the above information at the time of RFP, if applicable.

#### **5.0 SELECTION OF BIDDERS.**

A scrutiny of the information received will be carried out and the selected bidders will be informed in due course. The selected bidders will be issued RFP (Request For Proposal) for the package.

#### **6.0 METHOD OF SUBMISSION OF INFORMATION AND DUE DATE.**

All the bidders are requested to submit the above information through E-mail as well as hard copy, one original+2 copies( placed in one envelope) duly signed & stamped by authorized signatory of the Bidder, through courier so as to reach the following address **latest by 25.07.2010**

:

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