

# JINDAL INDIA THERMAL POWER LTD

## REQUEST FOR QUALIFICATION (RFQ)

**FOR SUPPLY OF FIVE SETS OF BOILER (SG), TURBINE GENERATOR (TG) AND CONTROL & INSTRUMENTATION(C&I) PACKAGES ON EPC BASIS HAVING 600MW/660 MW +10% CAPACITY WITH SUPER-CRITICAL PARAMETERS FOR UPCOMING PROJECTS IN CHHATTISGARH AND ORISSA, INDIA.**

### (INTERNATIONAL COMPETITIVE BIDDING)

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

A USD 600 Million B.C Jindal Group has been operating for the last five decades in the country and is known for its multi-product and multi-location manufacturing establishments. Group's other companies are Jindal Poly Films Ltd., Jindal Photo Ltd, Jindal India Ltd., Rexor SA France and Jindal India Thermal Power Ltd. JITPL is setting up 2x 600 MW/660 MW+10% Coal based Super-Critical Thermal Power Plant in the State of Chattisgarh, India and 3x 600 MW/660 MW+10% Coal based Super-Critical Thermal Power Plant in the state of Orissa, India. JITPL invites proposals from Bidders in response to this RFQ for supply of Boiler, Turbine Generator and C& I packages 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
CONSULTANT TO PROJECT	:	TCE Consulting Engineers Limited Sheriff Centre, 73/1, St. Mark's Road, Bangalore 560001
PROJECT	:	2 x 600 MW / 660MW + 10% Coal Based Super-Critical Thermal Power Plant at Chhattisgarh and 3 x 600 MW / 660MW + 10% Coal Based Super-Critical Thermal Power project at Orissa (Expansion Project).
LOCATION	:	Village Lohakhan, Distt. Raigarh. State of Chhattisgarh India Latitude: 21° - 53' – 55" N Longitude: 83° - 27' – 53" E  Village Derang, Distt. Angul. State of Orissa India Latitude: 21° - 7' – 00" N Longitude: 85° - 0' – 00" E
SOURCE OF COAL	:	For Chattisgarh Gare-Pelma coal mines of Mand -Raigarh Coal fields

		For Orissa * Mandakini Coal Block, Talchar, Orissa * Coal linkage from MCL Coalfields, Talchar, Orissa.
SOURCE OF WATER	:	For Chattisgarh: Mahanadi River For Orissa: Brahmani River
ACCESS TO SITE	:	Chattisgarh Project 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
		Orissa Project Road : About 35Km North-West of Talcher Rail : Nearest Railway Station Talcher

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

## **1. Scope of Work**

### **a) Boiler Package**

Detailed design including 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, unloading, preservation and storing at site, insurance up to time of handing over, erection, start-up, commissioning, successful performance testing of the Boiler, with all associated auxiliaries, including boiler integral controls on EPC basis for the proposed coal based Thermal Power Plants.

### **b) Turbine & Generator Package**

Detailed design including civil design for TG deck and TG building, 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, unloading, preservation and storing at site, insurance up to time of handing over, erection, start-up, commissioning, successful performance testing of the Turbine with all associated auxiliaries, Generator Bus Duct, Generator Circuit Breaker, Generator Transformer and including turbine integral controls on EPC basis for the proposed coal based Thermal Power Plants.

### **c) Control & Instrumentation Package excluding Boiler and Turbine integral controls**

Detailed design & engineering, complete manufacturing, fabrication including quality control / shop testing, packaging, forwarding, shipment and transportation to site, handling, preservation & storage of equipment at site, erection, construction, commissioning, testing, start-up, trial operation and performance guarantee testing on EPC basis.

## **2.0 BID QUALIFICATION REQUIREMENTS**

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

**A. Technical**

**I. In case of Boiler (SG) and Turbine Generator (TG) Packages**

- (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 at least three (3) units of 600 MW or higher capacity of the type to be offered in the bid for the project with Supercritical parameters having Main Steam Pressure range of 242 kg/cm<sup>2</sup> (abs) to 250 kg/cm<sup>2</sup> (abs) or better, Turbine inlet temperature of 565 Deg C or better and Re-heater outlet temperature 565 to 595 Deg C or better.
- (b) Out of the above, at least one (1) set 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 one (1) year and logged not less than 7,000 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 required 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) & (d) under Bid Qualification Requirements.

**II. In case of Control & Instrumentation (C&I) Package**

- a) The bidder (Refer ClauseNo.3.1 for explanation of LICENSOR OR LICENSEE & Refer ClauseNo.3.2 for explanation of LICENSEE) should have executed design, engineering, manufacturing, installation, testing and commissioning of at least One (1) package of similar nature for a Coal/ Gas Based Power Plant of capacity 250MW or above.
- b) 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 meet the qualification criteria mentioned in Para II(a) above.

**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) For Boiler and Turbine Generator Packages, 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 of Control & Instrumentation package, the Bidder shall have during the last three financial years an Average Annual Turn Over of not less than Rs.100 million (US\$ 2.5million) or its equivalent in any other currency.
- c) In case the bidder is EPC contractor, the financial criteria mentioned in Para 2.0 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.

LICENSEE who have designed, engineered, manufactured, tested and commissioned at least five (05) such Boiler Package, Turbine Generator Package and Control & Instrumentation Package (as the case may be) Capacity as per the Qualifying criteria mentioned in clause no 2.0 or higher capacity of the type offered in the bid for the project in the last ten (10) years and at least 2 of these Boiler Package, Turbine Generator Package and Control and Instrumentation Package should have

been in successful commercial operation for a period of not less than 7000 hours each as on date of bid opening are exempted to meet the requirements given above.

#### **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) Credit rating by reputed agencies, if any.
- c) Experience list as per the enclosed **Annexure-1**
- d) Bank solvency certificate.
- e) Letter of Authority for the authorized signatory.
- f) 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 (s) for which they are qualified.

#### **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 20.05.2008 :**

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Local Shopping Complex,  
Vasant Kunj  
Delhi 110070  
India  
Phone : 011-26139256-65  
          011-26122063, 011-26121980  
Fax : 011-26125734  
E-Mail : ak\_sehdev@jindalgroup.com,  
          cc:[vinod\\_agarwal@jindalgroup.com](mailto:vinod_agarwal@jindalgroup.com)

