

**JINDAL INDIA THERMAL POWER LTD**  
**REQUEST FOR QUALIFICATION (RFQ)**  
**FOR SUPPLY OF (2 X 600MW/600MW+10%) BOILER, TURBINE GENERATOR(BTG)**  
**PACKAGE BASED ON SUB-CRITICAL PARAMETERS IN DIST. ANGUL, ORISSA, INDIA**  
**(INTERNATIONAL COMPETITIVE BIDDING)**

**1. INTRODUCTION**

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., and Rexor SAS, France. Jindal India Thermal Power Ltd (JITPL), a 100% subsidiary company of Jindal Photo Ltd, is setting up 2x600MW/600MW+10% Coal based Sub-Critical Thermal Power Plant in the State of Orissa, India. JITPL invites proposals from Bidders in response to this RFQ for supply of BTG package 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 600MW/600MW+10% Coal Based Sub-Critical Thermal Power Plant
LOCATION	:	Near village Dereng, Tehsil Talcher Distt. Angul State of Orissa India  Latitude: 21° - 07' – 00" N Longitude: 85° - 00' – 00" E
SOURCE OF COAL	:	* Mandakini Coal Block, Talchar, Orissa * Coal linkage from MCL Coalfields, Talchar, Orissa.
SOURCE OF WATER	:	Brahmani River
ELEVATION ABOVE MEAN SEA LEVEL	:	110 Mtr
ACCESS TO SITE	:	Road : About 35KM North-West of Talcher town and 20 KM from NH-23.  Rail: Nearest Railway Station: Talcher

The brief scope of work and pre-qualification requirements and schedule are given below: -

## **1.0 SCOPE OF WORK OF BTG PACKAGE**

Design including civil design for TG deck, 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 and storing at site, insurance up to time of handing over, and supervision of erection, start-up, commissioning, successful performance testing of the BTG package, comprising of Boiler, Turbine and Generator with all associated auxiliaries, Generator Bus Duct, Generator Transformer and C&I systems for the proposed coal based Thermal Power Plant.

## **2.0 BID QUALIFICATION REQUIREMENTS**

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

- (a) The bidder (LICENSOR OR LICENSEE – Refer Clause No.3.1& 3.2 for explanation of LICENSEE) should have designed, engineered, manufactured, installed, tested and commissioned atleast five (5) units of 500 MW or higher capacity of the type to be offered in the bid for the project, comprising of the following:-
  - i) Coal fired drum type sub-critical Boilers & auxiliaries.
  - ii) Steam Turbine Generators (with sub-critical steam parameters) with steam parameters equal to or higher than those offered
- b) Out of the above, at least two (2) sets of Boilers with auxiliaries and Steam Turbine Generators with auxiliaries 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 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.

## **3.0 SPECIFIC REQUIREMENTS-BOILER, TURBINE & GENERATOR (BTG) MANUFACTURER**

- 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 BTG who regularly manufactures the equipment and has adequate technical knowledge and practical experience.
  - b) He has adequate plant and manufacturing capacity available to perform the works properly and expeditiously within the time period specified.
  - c) 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.
  - d) 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, in case of BTG is a LICENSEE shall meet the following requirements.
  - 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.
- g) Sub-vendors of the LICENSEE shall be approved by the LICENSOR.

LICENSEE who have designed, engineered, manufactured, tested and commissioned at least ten (10) such BTG (as the case may be) each of equal or higher capacity of the type offered in the bid for the project in the last ten (10) years or alternative offered in the bid for the project in the last 10 years and at least 2 of these BTG should have been in successful commercial operation for the last 2 years and logged not less than 14000 hours each as on date of bid opening are exempted to meet the requirements given above.

**4.0** The surface condenser manufacturer should have designed, manufactured, supplied, tested and commissioned at least three (3) similar type and configuration of surface condenser for a steam turbine of similar or higher capacity, which are in satisfactory commercial operation for a period of not less than 20000 hours in coal fired power plants as on date of bid opening.

**5.0** The Boiler feed pump (BFP) manufacturer should have designed, manufactured, supplied, tested and commissioned at least ten (10) similar type and configuration of BFP for units of similar capacity and pressure rating or higher, which are in satisfactory commercial operation for a period of not less than 20000 hours in coal fired power plants as on date of bid opening.

**6.0** DCS manufacturer 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.

**7.0** The manufacturers / suppliers / sub-vendors of all equipment/systems shall be regular manufacturers / suppliers of such equipment / systems. They shall provide necessary evidence of same.

## **8.0 FINANCIAL**

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

8.2 The Bidder shall have during the last three financial years an Average Annual Turn Over of not less than Rs.30, 000 million (US\$ 760 million) or its equivalent in any other currency.

## **9.0 INFORMATION REQUIRED.**

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

- a) Bidder does not anticipate change in his ownership during the proposed period of the work. (If such a change is anticipated, the scope and effect thereof, shall be defined).
- b) Bidder shall furnish their audited profit and loss account and balance sheet for the last three (3) years.
- c) Bidder shall furnish documentation to establish that he has adequate financial stability and status to meet obligations pursuant to scope of the contract.

- d) Credit rating by reputed agencies, if any.
- e) Contracts in hand/pending jobs and their status.
- f) Major legal cases and their statutory liabilities.
- g) Recent coal fired power plant orders and their status.
- h) Bank solvency certificate.
- i) Letter of Authority for the authorized signatory.
- j) Documentary evidence to satisfy the qualifying requirement mentioned above.

#### **10.0 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 furnished the technical specification covering BTG package, indicating the bid security amount and the timetable for issue and submission of the same.

#### **11.0 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 28.01.2008** :

Jindal India Thermal Power Ltd.  
Plot No. 12, Sector B-1,  
Local Shopping Complex,  
Vasant Kunj  
Delhi 110070  
India  
Phone : 011-26139256-65  
          011-26122063(D)  
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