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**JINDAL POWER LIMITED (JPL)**

DETAILED INVITATION FOR BIDS (IFB)  
 FOR  
BOILER TURBINE GENERATOR (BTG) PACKAGE

**required for up to 10 X 660 MW/ 8 X 800 MW Super Critical Coal Fired Units.**

**(International Competitive Bidding)**

**IFB No. JPL-IFB-BTG-ICB-001/2010**

**Date: 24.03.2010**

1.0 JPL invites sealed bids in two parts (i.e. Part – I :- Techno-commercial bid and Part – II :- Price Bid) from eligible bidders for the supply and installation of Boiler Turbine Generator (BTG) Package required for up to 10 X 660 MW/ 8 X 800 MW Supercritical coal fired thermal power plants planned to be installed in the states of Odisha/ Jharkhand, India. The Owner intends to develop a standard module for these units and accordingly wind & seismic parameters have been defined to avoid re-engineering. JPL reserves the right to decide on the final site and number of units to be installed at said location/locations. Site data & Fuel analysis to be considered for the said package is attached as attachment I & II respectively with this IFB. The Brief Scope of Work is indicated below.

**2.0 Scope of Work**

Supply including Design, Engineering, Manufacturing, Inspection & testing at supplier's works, packing, forwarding, Insurance, transportation to Site, Unloading & handling at site, storage, construction, erection, installation, testing, supervision, Pre-commissioning, commissioning, completion of facilities, conducting performance Guarantee tests, training of Owner's personnel and final completion of Coal Fired Boiler Turbine Generator package based on Super critical technology including, supply of mandatory spares and unit assemblies, commissioning spares and special tools and tackles complete with all accessories and Auxiliaries. Bidder shall consider the Bidding Documents in their entirety for a complete understanding and interpretation of the Work and shall submit a Bid that meets the complete requirements of the Bidding Documents.

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- 3.0 Qualifying requirement, benefits/ exemptions to supplies for this package as per provisions of Government of India Notifications for Mega Power Project, Cost of bidding documents and requirements regarding Bid security etc are elaborated in the clauses hereunder.
- 4.0 Detailed specifications and scope are given in the bidding documents, which are available for examination and sale at the address given below and as per the following schedule:

**Mr. M C Bhardwaj,**

Head (Contracts & Procurement)

Jindal Power Limited,

DCM Building, 2<sup>nd</sup> floor,

Plot No. 94, Sector 32,

Gurgaon-122002

Telephone No: Direct: - 0091-124-6689021

Board: - 0091-124-6689000 Extn. 9021

Fax No. 0091-124-6689109

<b>Bidding Document No.</b>	<b>JPL-IFB-BTG-ICB-001/2010</b>
Document Sale Date & Timing	From 01.04.2010 to 20.04.2010 Between 10.00 hrs. (IST) to 17.00 hrs (IST) Except 2 <sup>nd</sup> & 4 <sup>th</sup> Saturdays, Sundays & Holidays.
Bid Receipt Date & Time	Up to 30.05.2010 by 14.00 hrs. (IST)
Bid Opening Date & Time	30.05.2010 at 15.00 hrs.(IST)
Cost of Bidding Documents	Rs.27,000 (Rs. Twenty seven thousand only) per set for Indian Bidders and US \$ 600 (US Dollar Six hundred only) per set for Foreign Bidders.

## 5.0 Bid Security

All bids must be accompanied by Bid Security for an amount equivalent to Indian Rs.500,000,000.00 (Rupees fifty Crores only) for BTG package, either in bid currency or in US Dollars in the form of **Bank Guarantee** as per the Performa of Bid Guarantee attached in Section-I, Conditions of Contract of Bid documents. If the Bid Price is quoted in more than one currency, the Bid Security shall be in US Dollars. Bid Security shall be in favour of "JINDAL POWER LIMITED".

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Bids not accompanied by the requisite Bid Security in a separate sealed envelope or bids accompanied by the Bid Security of inadequate value shall not be entertained and in such cases, bids shall be rejected by the Owner as being NON-RESPONSIVE and returned to the Bidder(s) without being opened.

**6.0 Benefits/Exemptions to suppliers for Mega Power Projects**

The Project may be eligible for “Mega Power Project” status as provided by the Ministry of Power of the Government of India and Owner is in the process of obtaining the necessary approval from the Government of India. “Mega Power Project” status will enable the Project to get various fiscal benefits. Accordingly, supplies of goods for this package will be eligible for benefits/ exemptions as per provisions of relevant notifications of the Govt. of India.

**7.0 Qualifying requirement for Bidders**

In addition to the requirements stipulated in Section-I, Part- B, Instructions to Bidders (ITB), the Bidder should also meet any one of the Qualifying Criteria stipulated under cl.- 7.1 or 7.2 or 7.3.

**7.1 Qualification Criteria – 1**

7.1.1 The Bidder (or if Bidder is a Consortium, at least one Consortium Member) should have Designed, Engineered, Manufactured, erected, commissioned at least one Super-Critical Boiler (Steam Generator) and/or Steam Turbine Generator, each of at least 90% rating of the offered Steam Generator and/or Steam Turbine Generator, which are in successful operation for a period of at least one (1) year, as on the Bid Submission Date.

**7.2 Qualification Criteria – 2**

7.2.1 The Bidder (or if Bidder is a Consortium, at least one Consortium Member) should have Designed, Engineered, Manufactured, erected, commissioned at least one Re-heat type Boiler (Steam Generator) and/or Steam Turbine Generator each of 500 MW rating or above, which are in successful operation for a period of at least one (1) year as of the Bid Submission Date;

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7.2.2 Bidder has, in each case with respect to the Super-Critical Steam Generator and/or Steam Turbine Generator offered, an association with, valid licensing agreement with, an authorization to manufacture from or a long term manufacturing collaboration agreement with, a Super-Critical Steam Generator and/or Steam Turbine Generator manufacturer who has designed the offered Super-Critical Steam Generator and/or Steam Turbine Generator and on its own fully meets the requirement of Clause 7.1.1 (a Super-Critical Steam Generator and/or Steam Turbine Generator manufacturer that on its own fully satisfies the requirements of Clause 7.1.1 this ITB hereinafter referred to as a “Qualifying BTG”).

7.2.3 In the event that Bidder submits its Bid on the basis that Bidder satisfies the criteria in this Clause 7.2, Bidder shall, together with its Bid, furnish a deed of joint undertaking in the form prescribed in the performa enclosed in the Section I jointly executed by Bidder and the Qualifying BTG pursuant to which Bidder and the Qualifying BTG are jointly and severally liable to Owner for the successful performance of the Super-Critical Steam Generator and/or Steam Turbine Generator offered by Bidder pursuant to its Bid and their integral auxiliaries. The deed of joint undertaking shall be submitted along with the Bid, failing which Owner may disqualify Bidder and reject such Bidder’s Bid. In the event of an award to Bidder, the Qualifying BTG shall furnish a bank guarantee in the form as described in Section- I for one point five percent (1.5%) of the total Contract Price in addition to the Bidder’s Security to be furnished by Bidder.

**7.3 Qualification Criteria – 3**

7.3.1 Bidder shall have an association with a Qualifying BTG. The Qualifying BTG shall be the supplier of the Super-Critical Steam Generator and/or Steam Turbine Generator offered by Bidder pursuant to its Bid. In such an event, Bidder shall, together with its Bid, furnish a deed of joint undertaking in the form jointly executed by Bidder and the Qualifying BTG, in and pursuant to which Bidder and the Qualifying BTG are jointly and severally liable to Owner for the successful performance of the Super-Critical Steam Generator

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and/or Steam Turbine Generator offered by Bidder pursuant to its Bid and their integral auxiliaries. The deed of joint undertaking shall be submitted along with the Bid, failing which Owner may disqualify Bidder and reject such Bidder's Bid. In the event of an award to Bidder, the Qualifying BTG shall furnish a bank guarantee in the form as described in Section- I for one point five percent (1.5%) of the total Contract Price in addition to the Bidder's Security to be furnished by Bidder.

8.0 Bidders shall quote separate package price for following, as per the stipulation of tender document:

- 8.1 Steam Generator (Boiler) & auxiliaries along with Electrostatic Precipitators (ESP)
- 8.2 Steam Turbine Generator (TG) & auxiliaries
- 8.3 Complete BTG

JPL may place order for complete BTG or on package basis at its sole discretion at the time of award.

9.0 JPL reserves the right to reject any or all bids or cancel/withdraw the Invitation for Bids (IFB) without assigning any reason whatsoever and in such case no Bidder/intending Bidder shall have any claim arising out of any such action.

10.0 A complete set of Bidding Documents may be purchased by any interested Bidder on submission of written application and payment (non-refundable) of the cost of the documents as mentioned at Clause 4 above in the form of a crossed Account Payee Demand Draft in favor of Jindal Power Limited payable at New Delhi. Issuance of Bidding Documents to any Bidder shall not construe that such Bidder is considered to be qualified. Bids shall be submitted and opened at the address given in Clause 4 above in the presence of Bidder's representatives who choose to attend.

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**Attachment I**

Design ambient temperature	50.0 Deg C
Relative Humidity	Varies from 19% to 88%
Seismic Zone	Zone III, as per IS-1893, Part 1
Basic wind speed.	50 m/sec at 10M above mean retarding surface.

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**Attachment II - Fuel Analysis**

PARTICULARS	Performance Coal	Range of Coal
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**Proximate Analysis**

Total Moisture, %	12	11-17
Ash, %	42	38-44
Volatile Matter, %	21	20-26
Fixed Carbon, %	25	23-32.5
Gross Calorific Value (GCV), Kcal/ Kg.	3200	2800-4200
Hardgrove Grindability Index (HGI)	52	50-55
Ash Initial Deformation Temp. (IDT) Deg. C	1200	1150-1225
Hemishpherical Temp. (HT) Deg. C	1400	1400

**Ultimate Analysis (in %)**

Total Moisture	12	11-17
Ash	42.06	38-44
Carbon (C)	34.15	32-43
Hydrogen (H)	2.2	2.0-3.0
Nitrogen (N)	1.0	0.75-1.05
Oxygen (O)	8.09	6.1-8.5
Sulphur (S)	0.5	0.4-0.6

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