

JAIPRAKASH POWER VENTURES LIMITED

INVITATION FOR BIDS (IFB)

FOR

BTG PACKAGE INCLUDING ESP & STATION C&I

FOR

EXPANSION OF BINA THERMAL POWER PROJECT (1X660-700 MW)

AT BINA, DISTRICT SAGAR, STATE OF MADHYA PRADESH, INDIA

(INTERNATIONAL COMPETITIVE BIDDING)

IFB NO. : BPSCL-II-BTG-ICB-01

Date : 02.08.2011

1.0 Jaiprakash Power Ventures Ltd. (JPVL), the power vehicle company of Jaypee Group invites sealed bids (in two parts – Techno commercial & Price) from eligible bidders/parties for Supply & Installation of BTG Package for Bina Thermal Power Project Stage II (1 x 660-700 MW), being set up, at Bina Distt. Sagar, State of Madhya Pradesh, India, as per the brief Scope of Work mentioned hereinafter.

2.0 **BRIEF SCOPE OF WORK**

The scope of work under the purview of the title package: **BOILER TURBINE GENERATOR INCLUDING ESP & STATION C&I** for the expansion of 1x660-700 MW Bina Thermal Power Project at Bina, District-Sagar, MP, covers all aspects of design, engineering, procurement, manufacture, supply, inspection and testing at contractor's work(s), packing, transportation to site (air/sea/inland), insurance including transit insurance, receiving & handling at site, unloading, storage, erection, supervision, pre-commissioning, testing, commissioning and performance testing of the equipments/ systems and accessories to be furnished in accordance with the specification of the subject package.

The supply and erection work entrusted under the complete jurisdiction of the competent contractor shall include but not be limited to :

- (a) Steam Generator set from inlet of feed water stop and check valve at economizer inlet up to emergency stop valve (ESV) at turbine inlet, complete with all the associated auxiliaries / accessories / equipments under this specification. Coal supply line shall extend up to the raw coalbunkers. For ash disposal from the Steam Generators, the seal

plates at inlet of the bottom ash hoppers shall be provided. Air and flue gas system (excluding Chimney), Soot blowing system, Auxiliary steam system, Fuel oil pressuring heating & firing system, Power cycle piping, valves & specialties, Thermal insulation and painting, Boiler elevators, SG island equipment cooling water system, Chemical feed system and all associated Electrical, Control & Instrumentation to make the subject package self-sustained and complete in all respects.

- (b) Turbine-Generator set inclusive of all accessories like Lubricating oil system, Governing system, ATRS, Gland sealing system, supervisory instruments, steam turbine associated piping, generator excitation system, generator cooling system, Seal oil system etc; Horizontal Surface Condenser complete with condenser air-extraction system; Regenerative Feed Heating system including drain cooler, low pressure heaters, deaerator and feed storage tank, high pressure heaters with accessories; Power cycle pumps & drives inclusive of all accessories; TG island equipment cooling water system ; Turbine Oil purification system; Condensate polishing system ;Condenser On-load tube cleaning system ;thermal insulation as applicable ; EOT cranes complete with all accessories and monorail hoists and lifting devices in the TG hall ; Passenger elevators for TG building and service building; along with all associated Electricals, Control & Instrumentation to make the subject package self-sustained and complete in all respects.
- (c) Electro Static Precipitator (ESP)
- (d) Station Control and Instrumentation (C&I)

3.0 JPVL intends to finance BTG Package including ESP & Station C&I for Expansion of Bina Thermal Power Project (1 x 660-700 MW) through a mix of debt, to be raised as term loan from International and Domestic Financial Institutions and equity.

4.0 Detailed specification 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 :

Bidding Document No..	:	BPSCL-II-BTG-ICB-01
Document Sale Date & Timing	:	August 16, 2011 to August 31, 2011 (Except Sundays) From 1100 hrs. to 1500 hrs. (IST)
Technical, Commercial & Price Bid Receipt Date & Time	:	Upto 1030 hrs on September 30, 2011
Cost of Bidding Document	:	Rs.50,000 (Rupees Fifty Thousand only) per set for Indian Bidders and US \$ 1100
(To be submitted as Bank Draft)		(US Dollar Eleven Hundred only) for Foreign Bidders)

5.0 All bids must be accompanied by Bid Security for an amount equivalent to Rs.10,000,000 (Rupees Ten Million only), either in bid currency or in US Dollars, as stipulated in the Bidding

Documents. If the Bid Price is quoted in more than one currency, the Bid Security shall be in US Dollars. Bids not accompanied by the requisite Bid Security in a separate sealed envelope or bids accompanied by Bid Security of inadequate value shall not be entertained.

6.0 BIDDER QUALIFICATIONS

- 6.1 These requirements are applicable to bids requested by Jaiprakash Power Ventures Limited (JPVL) for the 1 x 660-700 MW capacity Bina Thermal Power Project.
- 6.2 The Bid and sourcing of equipment (including raw material, castings and forgings) for this Package shall be from India/Switzerland/USA/Canada/Japan/South Korea/member countries of CIS and European Union (EU) nations as on 1/1/95. Qualified bidders shall outsource the equipment from aforesaid countries only.
- 6.3 Further, the Bidder who intends to participate in this bidding is required to meet the following qualification requirement on his own and/or, wherever applicable, alongwith his associate(s) or Joint Venture partners and provide the documentary evidence that he/his associate:

GENERAL

- 1.0 is a manufacturer, who regularly manufactures equipment of the type specified and unit size as offered and undertakes the type of work specified and has adequate technical knowledge and relevant experience for the works covered in the bidding documents,
- 2.0 has adequate financial stability and capability to meet the financial obligations pursuant to the works covered in the Bidding Documents,
[The Bidders should submit three (3) copies of their profit and loss account and balance sheet for the last three (3) years]
- 3.0 has required design, manufacturing and fabrication capability and capacity available to perform the work within the time period specified. The evidence shall specifically cover, with written details, the installed manufacturing and fabrication capacities and present commitments (excluding those anticipated under these bidding documents). If the present commitments are such that the installed capacity results in an inadequacy of design, manufacturing and fabrication capacities to meet the requirements appropriate to the works covered in his bid, then the details of alternative arrangements to be organized by the Bidder and/or his associate for this purpose and which shall meet the Employer's approval, shall also be furnished,
- 4.0 has an established project management organization covering the areas related to engineering of equipment/systems, interface engineering, procurement of equipments and the necessary field services required for successful construction/erection, testing and commissioning of all the power plant equipments and systems covered in the scope of work under this Bidding documents,
- 5.0 has established quality assurance systems and organization designed to achieve high levels of equipment/system reliability, both during manufacturing, fabrication and field installation activities.

Note:

A company formed by the merger of two or more companies engaged in supply and installation of power generation equipments can also participate provided the constituent company before merger individually or jointly meet the stipulated qualification requirements fully.

6.1 Technical Eligibility Criteria

The Bidder shall meet the technical qualifying requirement stipulated hereunder:

- a) Bidder should have designed, engineered, manufactured, supplied, erected, commissioned and conducted the performance test of at least two (2) number of 500 MW or higher capacity units with pulverized coal fired Steam Generator set and Steam Turbine & Generator set along with their auxiliaries suitable for following supercritical parameters (minimum value) :-
- (i) Rated turbine throttle steam pressure - 240 kg/cm²
 - (ii) Rated turbine throttle steam temperature - 535° C
 - (iii) Rated turbine throttle reheat steam temperature - 565° C

which are in successful commercial operation for a period of not less than two (2) years on the last date of submission of bid. Steam generator should be of the type specified, i.e. single pass (tower type) or two pass type using either spiral wound (inclined) or vertical plain/rifled type water wall tubing. In addition, the steam generator should have been provided with evaporator suitable for variable pressure operation (sub-critical and super-critical pressure ranges). The bidder shall offer only the type of steam generator and type of water wall tubing for which he meets the above criteria of successful operation.

OR

- b) (i) In case the bidder is a manufacturer of pulverized coal fired Steam Generator set of 500 MW or higher capacity suitable for supercritical parameters specified or higher, and type as specified at 6.1(a) above, he in collaboration / association with the manufacturer of Steam Turbine & Generator set of 500 MW or higher capacity suitable for supercritical parameters specified at 6.1(a) above or higher, shall be eligible provided the bidder and/or his collaborator/ associate should have designed, engineered, manufactured, supplied, erected and commissioned and conducted the performance test of at least two (2) numbers of pulverized coal fired Steam Generator sets and Steam Turbine & Generator sets suitable for supercritical parameters specified at 6.1(a) above or higher, which are in successful commercial operation for a period of not less than two (2) years on the last date of submission of bid.

OR

(ii) In case the bidder is a manufacturer of Steam Turbine & Generator set of 500 MW or higher capacity, suitable for supercritical parameters specified at 6.1(a) above or higher, he in collaboration / association with the manufacturer of pulverized coal fired Steam Generator set of 500 MW or higher capacity and type as specified at 6.1(a) above suitable for supercritical parameters specified at 6.1(a) above or higher, shall be eligible provided the bidder and/or his collaborator/ associate should have designed, engineered, manufactured, supplied, erected and commissioned at least two (2) numbers of Steam Turbine & Generator sets and pulverized coal fired Steam Generator set suitable for supercritical parameters specified at 6.1(a) above or higher, which are in successful commercial operation for a period of not less than two (2) years on the last date of submission of bid.

In such cases [b(i) or b(ii)], the bidder shall furnish a deed of joint undertaking executed between the bidder & the collaborator / associate as per the format enclosed with the bid document towards the bidder and his collaborator / associate/JVC jointly and severally liable to OWNER for the successful performance of the contract. The deed of joint undertaking shall be submitted along with the bid failing which the bid shall be disqualified and rejected. In case of award, the collaborator /associate/JVC may be required to furnish a separate on demand bank guarantee for 1.0%(one percent) of the total contract price in addition to the contract performance securities to be furnished by the bidder

In case bidder or his collaborator / associate/JVC, as the case may be, does not manufacture the turbo generator of 500 MW or higher capacity and source the generator from his collaborator / associate turbo generator manufacturer and both these companies ("Bidder" or his "Collaborator / Associates" and "Collaborator / Associate generator manufacturer") together meet the qualifying requirement as stipulated above, shall also be considered as qualified bidder / collaborator / associate/JVC for STG manufacture.

OR

- c) The Bidder should have designed, engineered, manufactured, erected and commissioned and conducted the performance test of at least two (2) number coal fired Steam Generator and Steam Turbine and Generator sets of 500 MW or above capacity in India with sub-critical parameters and which are in successful commercial operation for at least two (2) years as on the last date of submission of the bid. The bidder should also have valid collaboration for design, engineering and manufacture of 500 MW or higher capacity coal fired Supercritical Steam Generator and Steam Turbine & Generator suitable for Supercritical parameters specified or higher, separately or together with manufacturer(s) of Steam Generator and / or Steam Turbine and Generator meeting the requirements of 6.1(a) above. In such case, the bidder shall furnish a deed of joint undertaking executed between the bidder & the collaborator / associate as per the format

enclosed with the bid document towards the bidder and his collaborator / associate jointly and severally liable to OWNER., for the successful performance of the contract. The deed of joint undertaking shall be submitted along with the bid failing which the bid shall be disqualified & rejected.

In case of award, the collaborator / associate/JVC may be required to furnish a separate on demand bank guarantee for 1.0%(one percent) of the total contract price in addition to the contract performance securities to be furnished by the bidder

OR

d) The Bidder shall be either an Engineering, Procurement and Construction (EPC) organization or a Turnkey Management and contracting organization and has successfully executed at least two (2) number Coal / Lignite / Gas fired power plant of unit size of 200 MW or higher capacity (in case of Gas based combined cycle power plant the total capacity of the plant consisting of Gas Turbine Generator Set, Heat Recovery Steam Generator and Steam Turbine Generator Set shall be considered as unit capacity) in India, which are in successful commercial operation for a period of not less than two (2) years on the last date of submission of bid, or should have executed in the last 10 years large industrial projects on EPC basis (with or without civil works) in the area of power/steel/oil & gas/petrochemical /fertilizer or any other process industry with the total value of such projects being Rs. 10000 million or more with one of the projects having a contract value of Rs.4000 million or more which is in successful commercial operation for a period of not less than two (2) years on the last date of submission of bid, can be qualified provided he fulfils the following requirements.

i) In such a case the Bidder shall source SG(s) & STG(s) from its Joint Venture Companies (JVC). Such JVC should be incorporated in India for the manufacture of super critical SG and STG(s).Indian promoter of the JVC should have a valid technology transfer agreement on the last date of submission of bid for the type, size and rating of the SG and STG with manufacturer having qualification same as that of Bidder enumerated in category 6.1(a) and or 6.1(b) above.

ii) The Bidder shall furnish a deed of joint undertaking between the Bidder and the JVC as per the format enclosed in the bidding documents and he and the JVC being jointly and severally liable to the Employer for successful performance of the SG and STG as the case may be. The deed of joint undertaking shall be submitted along with the bid failing which the bid shall be disqualified & rejected. In case of award, each concerned /JVC(s) may be requested to furnish separate (for SG & STG separately) on demand bank Guarantee for an amount equal to 1.0% (One percent) of the contract price in addition to the contract performance securities to be furnished by the bidder.

General Notes for Technical Portion:

User's certificates from the plant owner to be furnished by the bidder along with the bid to establish the successful operation of the steam turbine and generator for the required period.

C. FINANCIAL

- 1.0 The average annual turnover of the bidder, in the preceding three (3) financial years as on the last date for submission of bid, shall not be less than Indian Rupees 6000 million or in equivalent foreign currency.
- 2.0 The unutilized Bank Guarantee limits of the bidder, as on 7 (seven) days prior to the last date for submission of bid, duly certified by the Bankers shall not be less than Indian Rupees 1500 million or in equivalent foreign currency.
- 3.0 The bidder shall have unutilized cash credit limits together with cash and bank balances including fixed deposits as on the 7 (seven) days prior to the last date for submission of bid of not less than Indian Rupees 520 million or in equivalent foreign currency.

Notes:

1. Other income shall not be considered for arriving at annual turnover.
2. For unutilized Bank Guarantee limits, Cash Credit limits and Turnover indicated in foreign currency, the exchange rate as on 7 (seven) days prior to the last date for submission of bid shall be used.
3. In case the bidder's unutilized bank guarantee / cash credit limits stipulated at 2.0 and 3.0 above are not sufficient, a comfort letter from one of the Bankers unequivocally stating that in case the bidder is awarded the contract, the Bank would enhance bank guarantee limit / cash credit limit to a level not less than the specified amounts, shall be acceptable.
4. In cases where audited results for the financial years for annual turnover are not available, certification of financial statements from a practicing Chartered Accountant shall be considered acceptable.

Documentary evidence that the Bidder is eligible to bid and is qualified to perform the contract as per the criteria mentioned above, if its bid is accepted, shall be furnished in Attachment-3 to bid. The Bidder, shall establish to the Employer's satisfaction that the Bidder has the financial, technical, production, procurement, shipping, installation and other capacities and capabilities necessary to perform the contract and meets the experience and other criteria stated above.

7.0 EMPLOYERS RIGHTS

- (a) JPVL reserves the right to reject any or all bids or cancel / withdraw the Invitation for Bids without assigning any reason whatsoever and in such case no bidder / intending bidder shall have any claim arising out of such action.
- (b) JPVL reserves the right to relax the Bidders qualification, if required, in specific cases at its option.

8.0 A complete set of Bidding Documents may be purchased by any interested Bidder on submission of a written application and payment (non-refundable) of the cost of the documents as mentioned at clause 4.0 above in the form of a Crossed Account Payee Demand Draft in favour of Jaiprakash Power Ventures Limited, New Delhi payable at New Delhi. Issuance of Bidding Document to any Bidder shall not construe that such Bidder is considered to be qualified. Bids shall be submitted at the address given in clause 9.0 below

9.0 Address for Communication :

Mr. S. Sen, Director Phone No. 0091-120-4516342
Mr. R. Dayal, General Manager, Phone No. 0091-120-4516373
Email: r.dayal@jalindia.co.in

Jaiprakash Power Ventures Limited
JA Annexe, Sector – 134,
Wazidpur, Noida – 201 304 (U.P.)
Fax No.0091-120-4516101