

# **RAJASTHAN RAJYA VIDYUT UTPADAN NIGAM LTD.**

DESIGN, ENGINEERING, MANUFACTURE, ASSEMBLY, TESTING AT WORKS, SUPPLY, CIVIL, STRUCTURAL & ARCHITECTURAL WORKS, ERECTION, TESTING & COMMISSIONING OF MAIN PLANT & BALANCE OF PLANT ON TOTAL EPC BASIS FOR CHHABRA T.P.S. EXPANSION PROJECT: 2X660 MW

## **NOTICE INVITING TENDER – TNSCCH- 2**

### **INTERNATIONAL COMPETITIVE BIDDING**

1. Rajasthan Rajya Vidyut Utpaadan Nigam Ltd. (RVUN), a Govt. of Rajasthan undertaking invites sealed bids from eligible bidders for complete Engineering, Procurement and Construction (EPC) of coal fired 2X660 MW Chhabra T.P.S. Expn Project at Chhabra Dist. Baran, Rajasthan, India on Turnkey basis to meet the power requirement of the Rajasthan state.

2. **SCOPE OF WORK:**

Design, engineering, manufacture, shop fabrication, assembly, testing and inspection at supplier's works, packing, dispatch, shipping, Inland transportation to site, Insurance, Delivery at site, Receipt, Unloading, Handling, Storage and in-plant transportation at site, Installation, Pre-testing, Commissioning including all civil/ structural/ architectural, electrical, mechanical and I&C works and Handing over to the Owner 2 X 660 MW capacity supercritical thermal power plant comprising of Steam Generator, Steam Turbine & Generator and other associated auxiliaries & Balance of Plant on EPC basis.

3. **SCHEDULE OF BID ACTIVITIES:**

The bid Documents are available for sale at the office of the Dy. Chief Engineer (TD), Rajasthan Rajya Vidyut Utpaadan Nigam Ltd., Shed No. 10, Vidyut Bhawan, Vidyut Marg, Jyoti Nagar, Jaipur-302005, Rajasthan, India as per the following schedule:-

Cost of Bid Documents	Rs.1,00,000/- OR US \$2000/-
DD / Pay Order payable to	Chief Accounts Officer (TD), RVUN, Jaipur
EMD	Rs. 1400 Million (Indian Rupees Fourteen Hundred Million Only) or US \$ 28 Million (US dollars Twenty Eight Million Only) in the form of Bank Guarantee from any scheduled bank.
Sale of Bid Documents	From 25.11.2009 to 09.12.2009
Pre-bid conference	30 <sup>th</sup> Dec' 2009 at 11.00 AM (Queries to be submitted on or before 18.12.2009)
Last date for receipt of bids containing both Part-I & II I) <b>Part-I-</b> Cover-I-- Containing EMD, Cover – II containing Pre-	15.02.2010 up to 11.00 AM

qualification Documents, Cover-III containing Technical & Commercial bids. II) <b>Part-II</b> - Cover-IV - Containing Price bid	
Opening of Bids	<b>Part-I</b> - 15.02.2010 at 11.30 AM <b>Part-II</b> - Shall be intimated later.
Contact Person	Dy. Chief Engineer (TD), Rajasthan Rajya Vidyut Utpadan Nigam Ltd., Shed No. 10, Vidyut Bhawan, Jyoti Nagar, Jaipur-302005
Telephone Nos.	(Tel. No. Direct )0091-141-2740094 / 0091-141-2740381/82 Ext. 1546
Fax No.	0091-141-2740207
Email	acetd_rvun@rediffmail.com / td.rvun@gmail.com
<b><i>For details visit web site – www.rvunl.com</i></b>	

**NOTE:**

**If any of the dates mentioned above is declared a public holiday the deadline will be the next working day.**

**4. PRE-QUALIFICATION REQUIREMENTS:-**

**4.1** The Bidder should meet the technical qualifying requirement stipulated hereunder:

a) Bidder should have designed, engineered, manufactured, supplied, erected, commissioned at least one (1) number of 500 MW or higher capacity unit with pulverized coal fired Supercritical Steam Generator set and Steam Turbine & Generator set suitable for supercritical power plants, which is in successful commercial operation for a period of not less than one (1) year on the last date of submission of bid.

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 power plants, he in collaboration/association with the manufacturer of Steam Turbine & Generator set of 500 MW or higher capacity suitable for supercritical power plants, shall be eligible provided the bidder and/or his collaborator/associate should have designed, engineered, manufactured, supplied, erected and commissioned at least one (1) number of pulverized coal fired Steam Generator set and Steam Turbine & Generator set suitable for supercritical power plants, which is in successful commercial operation for a period of not less than one (1) year 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 power plants, he in collaboration/association with the manufacturer of pulverized coal fired Steam

Generator set of 500 MW or higher capacity suitable for supercritical power plants, shall be eligible provided the bidder and/or his collaborator/ associate should have designed, engineered, manufactured, supplied, erected and commissioned at least one (1) number of pulverized coal fired Steam Generator set and Steam Turbine & Generator set suitable for supercritical power plants, which is in successful commercial operation for a period of not less than one (1) year 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 jointly and severally liable to RVUN 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, each concerned collaborator/associate shall be required to furnish a separate on demand bank guarantee for 1.0 percent of the cost of steam generator/ TG as indicated by the bidder in price bid in addition to the contract performance securities to be furnished by the bidder.

In case bidder or his collaborator/associate, as the case may be, does not manufacture the generator of 500 MW or higher capacity and source the generator from his collaborator/associate 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 for STG manufacturer.

AND

In addition to meeting criteria listed in 4.1a) and 4.1b) above, Bidder should have designed, engineered, manufactured, supplied and erected at least one (1) number of 500 MW or higher capacity pulverized coal fired supercritical steam generator set and/or steam turbine and generator in India suitable for supercritical power plants.

OR

- c) The bidder should have designed, engineered, manufactured, erected and commissioned at least one (1) number coal fired Steam Generator and Steam Turbine and Generator set of 500 MW or above capacity in India with sub-critical parameters and which is in successful commercial operation for at least one (1) year as on the last date of submission of the bid. The bidder should also have valid collaboration/technical license for design, engineering and manufacture of 500 MW or higher capacity coal fired Supercritical Steam Generator and Steam Turbine & Generator suitable for Supercritical power plants, separately or together with manufacturer(s) of Steam Generator and / or Steam Turbine and Generator. In such case, the bidder shall furnish a deed of joint undertaking executed between the bidder & the technical licensor/collaborator/associate as per the format enclosed with the bid document towards the bidder and his technical licensor/collaborator/associate jointly and severally liable to RVUN for the successful performance of the contract. Further bidder should also attach a NOC from technical licensor/collaborator/associate with tender documents for participating in the project. Before prequalifying the bidder have to submit original copy of NOC. 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 technical licensor/collaborator/associate shall be required to furnish a separate on demand bank guarantee for 1.0 percent of the cost of steam generator/ TG as indicated by the bidder in price bid 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 one (1) number Coal / Lignite / Gas fired power plant of Unit size 100 MW or higher capacity (in case of Gas based Combined Cycle Power Plant the total capacity of 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 is in successful commercial operation for a period of not less than one (1) year on the last date of submission of bid, can be qualified provided he fulfills the following requirements.
- i) The Bidder shall source the Steam Generator (SG) and Steam Turbine Generator (STG) from its Joint Venture (JV) companies incorporated in India for Manufacturing of Steam Generators (SG) and Steam Turbine Generators (STG), wherein the Bidder is the majority stake holder and who shall maintain a minimum equity participation of fifty one percent (51%) in both the Joint Venture companies for a period of seven years from the date of incorporation of respective Joint Venture company.
  - ii) One of the other promoters of SG manufacturing JV company shall be a Steam Generator manufacturer hereinafter referred to as "Joint Venture Partner – SG manufacturer" who shall maintain a minimum equity participation of 26% in the Joint Venture Company for SG manufacturer for a period of seven (7) years from the date of its incorporation.
  - iii) One of the other promoters of STG manufacturing JV Company shall be a Steam Turbine & Generator manufacturer hereinafter referred to as "Joint Venture Partner – STG manufacturer" who shall maintain a minimum equity participation of 26% in the Joint Venture Company for STG manufacturer for a period of seven (7) years from the date of its incorporation.
  - iv) "Joint Venture Partner – SG manufacturer" should have designed, engineered, manufactured, supplied, erected, commissioned at least one (1) number of pulverized coal fired Steam Generator set of 500 MW or higher capacity suitable for supercritical power plants, which is in successful commercial operation for a period of not less than one (1) year on the last date of submission of bid.
  - v) "Joint Venture Partner– STG manufacturer" should have designed, engineered, manufactured, supplied, erected, commissioned at least one (1) number of Steam Turbine & Generator set of 500 MW or higher capacity suitable for supercritical power plants, which is in successful commercial operation for a period of not less than one (1) year on the last date of submission of bid.
    - i. In case "Joint Venture Partner – STG manufacturer" does not manufacture the Generator of 500 MW or higher capacity but

source the Generator from another partner of the same Joint Venture Company , would also qualify as "Joint Venture Partner – STG manufacturer" if he, along-with the Generator Manufacturing Company meets the requirements specified above.

- vi) The Joint Venture partner- SG manufacturer and "Joint Venture Company" should have valid ongoing technology transfer agreement for the type, size and rating of the Steam Generator specified valid upto the end of the warranty period of the contract.
- vii) The Joint Venture partner - STG manufacturer and "Joint Venture Company" should have valid ongoing technology transfer agreement for the type, size and rating of the Steam Turbine & Generator specified valid upto the end of the warranty period of the contract.
- viii) The bidder shall furnish a deed of Joint undertaking between the bidder and the promoter company(s) as per the format enclosed in the bidding documents towards the bidder & the promoters being jointly and severally liable to the RVUN for successful performance of the contract. The deed of joint undertaking shall be submitted along with the bid failing which the bid shall be rejected. In case of award, each concerned joint venture company shall be required to furnish a separate on demand bank guarantee for 0.5 percent of the cost of steam generator/ TG as indicated by the bidder in price bid in addition to the contract performance securities to be furnished by the bidder.

OR

- e) 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 one (1) number Coal/Lignite/Gas fired power plant of unit size 100 MW or higher capacity (in case of Gas based Combined Cycle Power Plant the total capacity of 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 is in successful commercial operation for a period of not less than one (1) year on the last date of submission of bid can be qualified provided he fulfills the following requirements.
  - i) In such a case the Bidder shall source SG and STG from its Associate Manufacturing Companies (AMC). The AMC should be incorporated in India for the manufacture of SG and /or STG wherein the Bidder is the majority/ sole stake holder. AMC(s) should have a valid on going technology transfer agreement for the type, size, and rating of the SG and/or STG with qualified company(s) (licensors) who should have designed, engineered, supplied, erected and commissioned at least one (1) number of 500 MW or higher capacity with pulverized coal fired supercritical steam generator set and or steam turbine & generator set as the case may be for supercritical power plants which is in successful operation for a period not less than one (1) year as on last date of submission of bid.
  - ii) The Bidder shall furnish a deed of joint undertaking between the bidder and the licensor as per the format enclosed in the bidding documents towards the bidder & the licensor being jointly and severally liable to the RVUN for successful performance of the SG and /or STG as the case may

be. The deed of joint undertaking shall be submitted along with the bid failing which the bid shall be rejected. In case of award, each concerned Associate Manufacturing company(s) shall be required to furnish separate on demand bank guarantee for an amount equal to 0.5% of the cost of SG / STG as indicated by the bidder in the price bid in addition to the contract performance security to be furnished by the bidder.

#### **4.2 Financial requirement:**

- a) In addition to the qualifying requirements mentioned above, the bidder should also have average annual turnover of Rs.10,000 million (Rs. Ten Thousand million) or an equivalent foreign currency as on the date of submission of the bid in the preceding consecutive last three years.
- b) The Net Worth of the bidder as on the last day of the preceding financial year shall not be less than 100 % of the paid-up share capital.
- c) In case the bidder is not able to furnish its audited financial statements on stand alone entity basis, the un-audited unconsolidated financial statements of the bidder shall be considered acceptable provided the bidder furnishes the following additional documents on substantiation of its qualification:
  - (i) Copies of the un-audited unconsolidated financial statements of the bidder along with copies of the audited consolidated financial statements of the Holding Company.
  - (ii) A Certificate from the CEO/CFO of the Holding Company, as per the format enclosed in the bid documents, stating that the unaudited unconsolidated financial statements form part of the Consolidated Annual Report of the company.

In cases where audited results for the last preceding financial year are not available, certification of financial statements from a practicing Chartered Accountant shall also be considered acceptable.

- d) In case a bidder does not satisfy the financial criteria, stipulated at clause 4.2(a) and/or 4.2(b) above on its own, the holding company would be required to meet the stipulated turnover requirements at clause 4.2(a) above, provided that the net worth of such holding company as on the last day of the preceding financial year is at least equal to or more than the paid-up share capital of the holding company. In such an event, the bidder would be required to furnish along with its bid, a Letter of Undertaking from the holding company, supported by Board Resolution, as per the format enclosed in the bidding documents, pledging unconditional and irrevocable financial support for the execution of the Contract by the bidder in case of award.
- e) Financial criteria for associate / collaborator or "Joint Venture Partner-SG/ STG Manufacturer" or Licensor not being a majority stake holder
  - (i) The average annual turnover, in the preceding three (3) financial years as on the last date of bid submission, shall not be less than Rs. 10,000 million or in equivalent foreign currency.
  - (ii) The Net Worth as on the last day of the preceding financial year shall not be less than 100% of the paid-up share capital.

5. Notwithstanding anything stated in clauses 4.1 and 4.2 above, the RVUN reserves the right to assess the capabilities and capacity of the bidder, his collaborators / associates to perform the contract, should the circumstances warrant such assessment in the overall interest of the RVUN.
6. Bidders not fulfilling qualifying requirements are advised not to submit their offer against this bid specification. The offer of the bidder not fulfilling the qualifying requirements shall not be considered for further evaluation and will be rejected.
7. The bids must be accompanied by Earnest Money Deposits (EMD) for an amount of Indian Rs. 1400 Million (Indian Rupees Fourteen Hundred Million Only) or US \$ 28 Million (US dollars Twenty Eight Million Only) in the form of Bank Guarantee from any scheduled bank. The BG against EMD shall be valid for a period of 180 days from the date of opening of Part-I Bids.
8. The bidder shall be required to keep his offer valid for acceptance for at least 180 days from the date of technical bid opening.
9. Interested eligible bidders may obtain bidding document (non transferable) from the office of Dy.Chief Engineer(TD), Rajasthan Rajya Vidyut Utpadan Nigam Ltd., Shed No. 10, Vidyut Bhawan, Jyoti Nagar, Jaipur-302005, State Rajasthan (India) from 9.30 AM to 6.00 PM on all working days between the days mentioned above on payment of the specified amount by Crossed Demand Draft / Pay Order payable to Chief Accounts Officer (TD), RVUN, Jaipur and furnishing the cash receipt of the same to Dy. Chief Engineer (TD) with a requisition on letter head of the bidder for Bid Documents giving complete postal address (contact No./fax No./email ID/name of Contact Person etc.) of the Bidder. In case the bidder wishes to authorize somebody to collect the documents on his behalf, the appropriate authorization letter from the bidder should be presented along with the request letter. In case of request for despatch of bid documents through post / courier, the same shall be despatched through Registered Post. RVUN, however, shall not be responsible for postal delay.
10. The bidder who has purchased the Bid Document shall only be eligible for submission of the Bid Proposal.
11. RVUN does not bind itself to accept the lowest or any of the bids and reserves the right to accept any bid or reject any or all bids without assigning any reasons thereof.

**RVUN/PR-1461/2009**