

SPEC. NO.
TCE.5297A-H-
BOP-001

TCE CONSULTING ENGINEERS LTD
4 x 600 MW COAL BASED THERMAL POWER
STATION

SECTION – A3

TITLE

GENERAL CONDITIONS OF CONTRACT
BID QUALIFICATION REQUIREMENTS

SHEET 1 OF 7



JSW ENERGY LIMITED
4 X 600 MW SUB CRITICAL TPP

BID QUALIFICATION REQUIREMENTS



TCE CONSULTING ENGINEERS LIMITED

73/1, ST. MARK'S ROAD,
BANGALORE - 560 001
INDIA

MARCH 2008

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ELIGIBILITY CRITERIA

1. Basic Eligibility Criteria

- a. Bids are invited from parties, satisfying the eligibility conditions laid down below, on or before the last date for submission of the QUALIFICATION DOCUMENTS. Bids from parties not satisfying the criteria will not be considered for evaluation.
- b. No affiliate of JSWEL shall be eligible to apply. No firm (or its affiliates or parent company) which is providing consulting services in relation to this project shall be eligible to apply.
- c. The Bidder shall provide the satisfactory evidence that the Bidder and / or where applicable, its associates / partners
 - i. is a manufacturer, who regularly manufactures equipment of the type specified and / or undertakes the type of works specified and has adequate technical knowledge and relevant experience with requisite engineering and infrastructure for project management and execution.
 - ii. does not anticipate a change in ownership during proposed period of execution of work. (if such change is anticipated, the scope and effect thereof shall be defined.)
 - iii. has adequate financial stability and status to meet the financial obligations pursuant to the works covered in the Bid qualification documents as per Cl 2 of this section. Has adequate design, manufacturing and/or fabrication capacity and capacity available to perform the work properly and expeditiously within the time period specified. The evidence shall specifically cover, with written details, installation, manufacturing and/or fabricating capacities and present commitment (excluding those anticipated under this pre-qualification documents). If the present commitment are such that the installed capacity results in an inadequacy of manufacturing and / or fabrication capacities to meet the requirements appropriate to the works covered in this pre-qualification document then the details of the alternative arrangements to be organized by the Bidder and / or his associate / partner for this purpose shall be furnished and same shall be subject to JSWEL's approval and acceptance.

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iv. has an adequate project management organization, capable of executing the project under consideration, covering the areas related to engineering of equipment / systems, interface engineering procurement of equipment and the necessary field services required for successful construction, testing and commissioning of all the power plant equipment and systems covered in the scope of work of BTG package, under this document and has established quality assurance systems and organization designed to achieve high levels of equipment / system reliability both during his manufacturing and / or fabrication and field installation activities.

d. Declaration of Undertaking

The Bidder shall especially note :

The parties to the awarding procedure emphasise the importance of free, fair and competitive awarding procedure that precludes abuse. In this respect this Company thus far not offered or granted any inadmissible advantages either directly or indirectly to public servants or other persons in connection with its application, nor shall it offer or grant any such incentives or rewards in the present awarding procedure or, in case of an award, during subsequent execution of the agreement.

The Bidder shall inform its employees of their respective duties and their commitment to observe this self-imposed obligation to abide by the laws of the Republic of India.

2. Technical Eligibility Criteria

In addition to the general requirements stipulated above, the Bidder should also meet the qualifying requirements stipulated hereunder as per clause 2a or 2b or 2c or 2d, as the case may be.

ORIGINAL EQUIPMENT MANUFACTURER (OEM)

2a i . BIDDER should have designed , engineered, manufactured, installed, tested and commissioned at least two sub-critical pulverished coal fired steam generators each of 500 MWe or higher capacity of the type offered in the bid for the project (with steam parameters equal to or higher than those specified). Each of the above SG should have been in successful commercial operation for a period of not less than 12000 hours as on date of bid opening.

AND

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- (ii) BIDDER should have designed, engineered, manufactured, installed, tested and commissioned at least two sub-critical 500 MWe or higher capacity steam turbine generator (STG) sets of the type offered by him (with steam parameters equal to or higher than those specified) and each of the above STG are in successful commercial operation for a period of not less than 12000 hours as on date of bid opening

OR

- (iii) BIDDER can also be a manufacturer of only SG or STG meeting the requirements stipulated in 2 a.(i) OR 2a.(ii) above. In such a case he shall submit a joint undertaking along with the manufacturer of the other main equipment i.e. SG or STG as applicable who in turn also meets the requirements stipulated in 2 a.(i) OR 2 a.(ii) above, in which the associate and the BIDDER are jointly and severally liable to the OWNER to perform all the contractual obligations. In case of an award, the associate will be required to furnish a separate bank guarantee for 0.5 % (Half percent) of the total contract price in addition to the contract performance security by the BIDDER.

OR

2b . BIDDER shall be a joint venture between firms comprising

SG and STG manufacturers who in turn meet the requirements under 2a above.

2c . In case SG and or STG MANUFACTURER is a LICENSEE, he shall meet the following requirements: (Licensees who have designed , engineered, manufactured, installed, tested and commissioned at least 10 such SG/STG (as the case may be) each of 500 MWe or higher capacity of the type offered in the bid for the project in the last 10 years and at least 5 of these SG/STG have been in successful commercial operation for a period of not less than 2years as on date of bid opening are exempted to meet the requirements given below)

- i. Any design including engineering undertaken by the LICENSEE shall be approved by the LICENSOR.
- ii. Manufacture by the LICENSEE shall be done with the approval of the LICENSOR and PURCHASER under a quality assurance program approved and monitored by the LICENSOR.

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- iii. LICENSEE must furnish backup guarantee from the LICENSOR for individual and overall performance of the equipment supplied under the contract including conceptual engineering and system design
- iv . The LICENSEE agreement should be valid for a period of five years from the date of successful completion of trial operation of the equipment.
- v . In case of award of the contract, the licensor / collaborator of the licensee will be required to furnish bank guarantee of 0.5% (Half Percent) of the total contract price. This bank guarantee shall be in addition to the bank guarantee towards contract performance security to be furnished by Bidder
- vi LICENSEE shall obtain a certification from his collaborator that his (LICENSEE's) manufacturing and shop testing facilities are adequate to meet the standards of the licensor/collaborator and to meet the specified performance requirements of the equipment being supplied
- vii Licensor/Collaborator's quality assurance standards to be followed by the LICENSEE shall be made available to the OWNER/PURCHASER or OWNER/PURCHASER's inspector or his authorised representative as required for stage inspection by the OWNER/PURCHASER
- viii Licensor/Collaborator shall post suitable personnel at manufacturers works to supervise and ensure acceptable quality standards during manufacture and stage inspection; and also for site services as required by Owner.
- viv Licensor/Collaborator's technical support will be made available as required by the OWNER/PURCHASER in answering OWNER/PURCHASER's technical queries by way of correspondence and participation in coordination meetings during the execution of the contract
- vv Tools and tackles employed by the LICENSEE for site erection, site testing, commissioning and performance guarantee tests are to the satisfaction of licensor/collaborator
- vvi Sub-vendors of the LICENSEE shall be approved by the collaborator

3.0 SPECIFIC REQUIREMENTS - STEAM GENERATOR (SG) AND STEAM TURBINE GENERATOR (STG) MANUFACTURER

3.1 The MANUFACTURER (as applicable) shall furnish satisfactory evidence to establish the following without any ambiguity that :

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- a) he is a qualified manufacturer of SG and or STG who regularly manufactures the equipment and has adequate technical knowledge and practical experience
- b) he does not anticipate any change in ownership during the proposed period of work (if such change is anticipated, the scope and effect thereof shall be defined)
- 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 erection 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 organisation designed to achieve high levels of equipment reliability, both during his manufacturing and field installation activities.

3.2 The surface condenser should have been designed, manufactured, supplied, erected, tested and commissioned atleast two(2) 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 12000 hours in coal/lignite fired power plants as on date of bid opening.

3.3 The Boiler feed pump (BFP) should have been designed, manufactured, supplied, erected, tested and commissioned atleast six (6) similar type and configuration of BFP for a unit of similar capacity and pressure rating or higher, which are in satisfactory commercial operation for a period of not less than 12000 hours in coal/lignite fired power plants as on date of bid opening.

3.4 DCS should have been designed, manufactured, supplied, erected, tested and commissioned at least two(2) nos. of Distributed Control System (DCS) of similar capacity or higher capacity for coal/lignite fired power plants in the past Five (5) years. Out of these two, atleast 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 two 12000 hours.

3.5 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.

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3.6 Sourcing of all equipment / systems other than those specifically mentioned above should be only from the reputed sub-vendors / sub-contractors who have supplied atleast two similar or larger size equipment / systems as stipulated in the specification each of which are in satisfactory commercial operation for a period not less than two (2) years as on date of bid opening.

4.0 Financial Eligibility Criteria

- a. The average annual turnover of the Bidder for Steam Generator and Steam turbine generator and their auxiliaries package (OEM, Licensee, Sole, JV, total of consortium partners) in the last three (3) consecutive financial years as on the last date of submission of Bid, shall not be less than 500 million US dollars or equivalent. In addition, the Bidder shall also have positive Net Worth as on the last day of preceding financial year as on the last date of submission of application for pre-qualification. .
- b. In cases where audited results for the last preceding financial years are not available, certification of financial statements from a practicing Chartered Accountant shall also be considered acceptable.
- c. Bidder shall submit his audited balance sheet for last three (3) years and in case of consortium the audited balance sheet of each of the consortium members shall be submitted as part of response to Bid document along with other details not limited to the following:
 - i. In case of consortium, consortium agreement shall be valid till expiry of warrantee period of proposed contract. Copy of consortium agreement shall be submitted along with the Bid.
 - ii. The Bidder shall provide a copy of the business reports and audited annual reports of the last three (3) years.
 - iii. Credit rating by reputed and approved agencies.