

CORPORATE CONTRACTS, NOIDA

INVITATION FOR BIDS (IFB)

FOR

MAIN PLANT PACKAGE

FOR

LARA SUPER THERMAL POWER PROJECT STAGE-III (2x800 MW)

LOCATED AT

DISTT - RAIGARH, STATE OF CHATTISGARH, INDIA,

DVC-CIL CHANDRAPURA THERMAL POWER STATION (2X800 MW)

LOCATED AT

DISTT - BOKARO, STATE OF JHARKHAND, INDIA,

IB THERMAL POWER STATION STAGE-III (Unit 5&6, 2x660 MW)

LOCATED AT

DISTT - JHARSUGUDA, STATE OF ODISHA, INDIA

(International Competitive Bidding)

Tender Id. No.: 2025_NTPC_101320_1

Bidding Document No.: CS-8013/8038/8027-001A-2

Date: 24.11.2025

- A.** NTPC invites on-line bids for Main Plant Package on Bulk Tender basis for its Lara Super Thermal Power Project Stage-III (2x800 MW), DVC-CIL Chandrapura Thermal Power Station (2 X 800 MW) on behalf of DVC - CIL Energy Private Limited and IB Thermal Power Station Stage-III (2X660 MW) on behalf of Odisha Power Generation Corporation Limited (OPGC) on GePNIC portal of NTPC at website- <https://eprocurentpc.nic.in/> on **Single Stage Two Envelope Basis (i.e., Envelope-I: Techno-Commercial Bid and Envelope-II: Price Bid)** from eligible Bidders for aforesaid package, as per the scope of work briefly mentioned hereinafter.

B. BRIEF SCOPE OF WORK

The Brief scope of work for the Main Plant Package for Lara Super Thermal Power Project Stage-III (2x800 MW) is as follows:

Design, Engineering, Manufacture, Supply, Construction, Erection, Testing & Commissioning works for the Main Plant Package for LARA-III (2X800 MW) on the basis of single point responsibility, completely covering the following activities and services in respect of Steam Generator and Auxiliaries, Electrostatic Precipitator, Biomass co-firing capability, Auxiliary PRDS complete, Steam Turbine & Auxiliaries, Air Cooled Condenser, Generator & Auxiliaries, ECW system for TG & SG auxiliaries excluding Station auxiliaries, Condensate polishing plant (CPU) and its regeneration system, Mill Reject Handling System, Air Conditioning & Ventilation Systems for BTG Area, Inert Gas Fire Extinguishing System (IGFES) for CCR, CERs, UPS & Battery Charger Rooms, etc. in TG Building, Critical Piping & Power Cycle piping, LP Piping in BTG area, DC Batteries, VFD, Battery chargers, LT switchgear, LT power cables, LT control cables, Lightning Protection, Cabling, Earthing, all Control & Instrumentation(C&I), Pipe / Cable racks in

BTG Area, Civil, Structural & Architectural works of Main Power House, Common Control Room, ESP Control Room, Area Grading, Roads & Drains, underground facilities like drainage, sewerage, trenches, etc. in Main Plant Package covered under the specifications.

The Brief scope of work for the Main Plant Package for DVC-CIL Chandrapura Thermal Power Station (2 X 800 MW) is as follows :

Design, Engineering, Manufacture, Supply, Construction, Erection, Testing & Commissioning works for the Main Plant Package for DVC-CIL Chandrapura Thermal Power Station (2X800 MW) on the basis of single point responsibility, completely covering the following activities and services in respect of Steam Generator and Auxiliaries, Electrostatic Precipitator, Biomass co-firing capability, Auxiliary PRDS complete, Steam Turbine & Auxiliaries, Water Cooled Condenser, Generator & Auxiliaries, ECW system for TG & SG auxiliaries excluding Station auxiliaries, Condensate polishing plant (CPU) and its regeneration system, Mill Reject Handling System, Air Conditioning & Ventilation Systems for Main Plant Area, Inert Gas Fire Extinguishing System (IGFES) for CCR, CERs, UPS & Battery Charger Rooms, etc. in TG Building, Critical Piping & Power Cycle piping, LP Piping in Main Plant Area, DC Batteries, VFD, Battery chargers, LT switchgear, LT power cables, LT control cables, Lightning Protection, Cabling, Earthing, all Control & Instrumentation(C&I), Pipe / Cable racks in Main Plant Area, Civil, Structural & Architectural works of Main Power House, Common Control Room, ESP Control Room, Safety control room, Bottom ash hopper foundation, conveyor gallery between the boiler bunkers in case of front mill arrangement. Area Grading, Roads & Drains, underground facilities like drainage, sewerage, trenches, etc. in Main Plant Package covered under the specifications.

The Brief scope of work for the Main Plant Package for IB Thermal Power Station Stage-III (Unit 5&6, 2X660 MW) is as follows:

Design, Engineering, Manufacture, Supply, Construction, Erection, Testing & Commissioning works for the Main Plant Package for IBTPS Stage-III (2X660 MW) on the basis of single point responsibility, completely covering the following activities and services in respect of Steam Generator and Auxiliaries, Electrostatic Precipitator, Biomass co-firing capability, Auxiliary PRDS complete, Steam Turbine & Auxiliaries, Water Cooled Condenser, Generator & Auxiliaries, ECW system for TG & SG auxiliaries excluding Station auxiliaries, Condensate polishing plant (CPU) and its regeneration system, Mill Reject Handling System, Air Conditioning & Ventilation Systems for BTG Area, Inert Gas Fire Extinguishing System (IGFES) for CCR, CERs, UPS & Battery Charger Rooms, etc. in TG Building, Critical Piping & Power Cycle piping, LP Piping in BTG area, DC Batteries, VFD, Battery chargers, LT switchgear, LT power cables, LT control cables, Lightning Protection, Cabling, Earthing, all Control & Instrumentation(C&I), Pipe / Cable racks in BTG Area, Civil, Structural & Architectural works of Main Power House, Common Control Room, ESP Control Room, Area Grading, Roads & Drains, underground facilities like drainage, sewerage, trenches, etc. in Main Plant Package covered under the specifications

Note: Detailed scope of work has been specified in the bidding documents.

- C.** NTPC intends to finance the Main Plant Package of Lara Super Thermal Power Project Stage-III (2x800 MW) through a mix of debt and equity.

DVC - CIL Energy Private Limited intends to finance the Main Plant Package of DVC-CIL Chandrapura Thermal Power Station (2 X 800 MW) through 50:50 mode between DVC and CIL (Debt: Equity - 70:30).

Odisha Power Generation Corporation Limited (OPGC) intends to finance the Main Plant Package of IB Thermal Power Station Stage-III (Unit 5&6, 2X660 MW) through External Commercial Borrowings/Domestic Borrowings/Own Resources.

- D. Detailed specification, scope of work and terms & conditions are given in the Bidding Documents, which are available at the GePNIC (e-tender) portal at <https://eprocurentpc.nic.in/>. The Bidding Schedule* for the Tender is as under:

Issuance of IFB	24.11.2025
Start of Documents Sale	24.11.2025
Pre-Bid Conference Date	15.12.2025
Last Date of Receipt of Query	17.12.2025
Bid submission deadline [Envelope-I (Techno-Commercial) & Envelope-II (Price) bid]	30.12.2025 up to 1300 Hrs.(IST)
Bid Opening Date & Time for Envelope-I (Techno-Commercial) bid	30.12.2025 at 1530 Hrs.(IST)

Note: *Bidders are advised to visit the GePNIC (e-tender) portal of NTPC for updated bidding schedule of the Tender, if any.

It is to be noted that “No Queries from Bidders, whatsoever, shall be entertained by the Employer beyond the last date of receipt of Queries as specified at GePNIC portal of NTPC.

- E. All bids must be accompanied by Bid Security for an amount of **INR 100,00,00,000/- (Indian Rupees One Hundred Crore only) or US Dollars 11,193,200 (US Dollars Eleven Million One Hundred Ninety Three Thousand Two Hundred Only)** for each project {i.e. Lara Super Thermal Power Project Stage-III (2x800 MW), DVC-CIL Chandrapura Thermal Power Station (2 X 800 MW) and IB Thermal Power Station Stage-III (2X660 MW) } separately in the form as stipulated in the Bidding Documents.

ANY BID NOT ACCOMPANIED BY AN ACCEPTABLE BID SECURITY FOR EACH PROJECT IN A SEPARATE SEALED ENVELOPE SHALL BE REJECTED BY THE EMPLOYER AS BEING NON-RESPONSIVE. IN CASE, THE BID SECURITY IS SUBMITTED AS E-BG/ THROUGH ELECTRONIC FUND TRANSFER (EFT), BIDDER TO SUBMIT THE COPY OF E-BG/PROOF OF E-PAYMENT OF BID SECURITY EITHER IN SEPARATE SEALED ENVELOPE OR IN THE E-TENDERING PORTAL

- F. A complete set of Bidding Documents may be downloaded by any interested Bidder from the e-Tender Portal free of cost as per specified schedule. The tender is invited under e-tendering process. The bidders can enroll themselves on the website <https://eprocurentpc.nic.in/>. The use of Digital Signature Certificate (DSC) Class-3 key is mandatory for e-tendering activities. Accordingly, bidders should have Digital Signature Certificate (DSC) key of Class 3 to participate in e-tendering. Bidders, if required, can obtain DSC Class-3 key from agencies authorized by Govt. of India. The e-Tender Portal also has the user manuals with detailed guidelines on enrolment and participation in the bidding process.

No hard copy of Bidding Documents shall be issued. Bids shall be submitted only at the e-Tender Portal i.e. <https://eprocurentpc.nic.in/>

- G. **Qualifying Requirements for Bidders (QR):**

Qualifying Requirement (QR) for subject package is attached as **Appendix-I**.

- H. Class-I local suppliers are only eligible to participate in this tender, as defined in the bidding documents/ Public Procurement (Preference to Make in India), Order 2017 and its subsequent amendments/ revisions issued by DPIIT. The bidders may apprise themselves of the relevant provisions of bidding documents in this regard before submission of their bids.

Only Class-I local suppliers are eligible to Bid. Bids received (if any) from Class-II Local Supplier / Non Local Supplier shall be out rightly rejected.

- I.** Any 'Bidder from a country which shares a land border with India', as specified in the Bidding Documents, will be eligible to bid in this tender only if bidder is registered with the Competent Authority as mentioned in the Bidding Documents.

Further, any bidder (including bidder from India) having specified Transfer of Technology (ToT) arrangement with an entity from a country which shares a land border with India, will be eligible to bid only if the bidder is registered with the same competent authority.

However, the said requirement of registration will not apply to bidders from those countries (even if sharing a land border with India) to which the Government of India has extended lines of credit or in which the Government of India is engaged in development projects.

- J.** Transfer of Bidding Documents by one intending Bidder to another is not permissible.
- K.** Downloading/Issuance of Bidding Documents and /or submission of Bid shall not construe that such Bidder is considered to be qualified.
- L.** NTPC reserves the right to reject any or all bids or cancel/ withdraw the Invitation for Bids under subject IFB without assigning any reason whatsoever and in such case no bidder / intending bidder shall have any claim arising out of such action.

M. Address for Communication:

DGM (CS)/AGM(CS)
NTPC Limited,
6th Floor, Engineering Office Complex,
A-8A, Sector-24, NOIDA,
Distt. Gautam Budh Nagar, (UP), INDIA
Pin - 201 301
Tel. No.: +91-9650991817/9650099276
E-mail: amitk@ntpc.co.in/ bmandal@ntpc.co.in
Websites: <https://eprocurementpc.nic.in/> or www.ntpctender.ntpc.co.in or www.ntpc.co.in

N. Registered Office

NTPC Limited
NTPC Bhawan, SCOPE Complex,
7, Institutional Area, Lodi Road,
New Delhi – 110003

Corporate Identification Number: L40101DL1975GOI007966,
Website: www.ntpc.co.in

Appendix-I to IFB

**APPROVED QR FOR BULK TENDERING OF
MAIN PLANT PACKAGE OF, LARA Stage-III (2X800 MW) , DVC-CIL CHANDRAPURA TPS
(2X800 MW) AND OPGC Stage-III (2x660MW)**

1.0.0 The Bidder should meet the qualifying requirements of any one of the qualifying routes stipulated under clause 1.1.0 or 1.2.0 or 1.3.0 or 1.4.0 or 1.5.0 or 1.6.0 or 1.7.0. In addition, the Bidder should also meet the requirements stipulated under clause 2.0.0, 3.0.0, 4.0.0 & 5.0.0 together with the requirements stipulated under section ITB.

1.1.0 Route 1: Qualified Steam Generator and/or Qualified Steam Turbine Generator Manufacturer

1.1.1(A) The Bidder should have designed, engineered, manufactured/got manufactured, erected/supervised erection, commissioned/supervised commissioning of at least one (1) number of pulverized coal fired supercritical Steam Generator having rated capacity of 1500 tonnes of steam per hour or higher. Further, such 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 or vertical rifled type water wall tubing and should have been in successful operation for a period of not less than one (1) year prior to the date of techno-commercial bid opening. In addition, the above 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 is qualified.

AND/OR

1.1.1(B) The Bidder should have designed, engineered, manufactured / got manufactured, erected / supervised erection, commissioned / supervised commissioning of (i) at least one (1) number supercritical steam turbine of tandem compound, condensing, reheat type of 500 MW or higher capacity with main steam pressure, of 225 Kg/cm² (gauge) or higher and main steam / reheat temperature of 565 °C / 565 °C or higher and (ii) at least one (1) number of generator of two pole, Thermal class 155(F) winding insulation, hydrogen / water cooled stator and hydrogen / water cooled rotor of 500MW or above capacity. These steam turbine and generator should have been in successful operation for a period of not less than one (1) year prior to the date of techno-commercial bid opening.

1.1.2 The Bidder should have registered in India under the Companies Act of India, either a Subsidiary Company or a Joint Venture (JV) Company for manufacturing of supercritical steam generator sets and/or supercritical steam turbine generator sets for which it is qualified.

(a) In case the Bidder has formed a Subsidiary Company then the Subsidiary Company of the Qualified Steam Generator and/or Qualified Steam Turbine Generator Manufacturer should have been registered in India under the Companies Act of India for manufacturing supercritical steam generator and/or supercritical steam turbine generator sets covering the type, size and rating specified as on the date of techno-commercial bid opening. If the Subsidiary Company is registered as a public limited Company then it should have obtained certificate for Commencement of Business in India as on the date of techno-commercial bid opening.

The Subsidiary Company shall remain a subsidiary Company of the Qualified Steam Generator Manufacturer and/or Qualified Steam Turbine Generator Manufacturer for a minimum period of 7 years from the date of

incorporation of such Subsidiary Company or up to the end of the defect liability period of the contract whichever is later.

- (b) In case the Bidder has formed a JV Company then, the Joint Venture (JV) Company should have been incorporated in India under the Companies Act of India, as on the date of techno-commercial bid opening and promoted by (i) an Indian Company registered in India under the Companies Act of India and (ii) a Qualified Steam Generator Manufacturer and/or Qualified Steam Turbine Generator Manufacturer, for the purpose of manufacturing supercritical steam generator and/or supercritical steam turbine generator sets covering the type, size and rating specified. If the JV Company is incorporated as a public limited Company then it should have obtained certificate for Commencement of Business in India as on the date of techno-commercial bid opening.

The Qualified Steam Generator Manufacturer and/or Qualified Steam Turbine Generator Manufacturer shall maintain a minimum equity participation of 26% in the JV Company for a lock-in period of 7 years from the date of incorporation of JV Company or up to the end of the defect liability period of the contract whichever is later.

One of the promoters shall be a majority stakeholder who shall maintain a minimum equity participation of 51% in the JV Company for a lock in period of 7 years from the date of incorporation of JV Company or up to the end of the defect liability period of the contract whichever is later.

- (c) In case the Bidder meets the requirements indicated at 1.1.1(A)/(B) and 1.1.2(a)/(b) for either steam Generator sets or steam turbine generator sets (and not for both) then the Bidder shall associate/ collaborate for the other equipment with either of the following and shall source the equipment i.e. steam turbine generator set or steam generator set, only from such qualified associate.

(i) Qualified Steam Turbine Generator Manufacturer or Qualified Steam Generator Manufacturer, who shall in turn meet the requirements stipulated at 1.1.1(B) in conjunction with 1.1.4 (as applicable) or 1.1.1(A) above as the case may be along with requirements stipulated at 1.1.2 (a) / (b) and 3.0.0 for the respective equipment

Or

(ii) Indian subsidiary / JV Company of Qualified Steam Turbine Generator Manufacturer or Qualified Steam Generator Manufacturer, who shall in turn meet the requirements stipulated at 1.3.1(a) in conjunction with 1.3.3 (if applicable) or 1.4.1(a) in conjunction with 1.4.3 (if applicable) as the case may be along with requirements stipulated at 3.0.0 for the respective equipment

Or

(iii) Indian Subsidiary Company / JV Company / Indian manufacturing company meeting the requirements of clause 1.6.1 in respect of supercritical Steam Generator and/or supercritical Steam turbine Generator (as the case may be) and 3.0.0 for the respective equipment.

- 1.1.3 The Bidder shall furnish Deeds of Joint Undertaking (DJUs) as per the following table:

DJU	Executants	BG
For Steam Generator	The Bidder	-----
	Indian Subsidiary / JV Company for steam Generator	0.15%
	Other promoter having 25% or higher equity participation in Indian Subsidiary Company / JV Company for steam Generator	0.15%
	QSGM (applicable if other than bidder)	0.3%
For Steam Generator (if the Steam Generator is being sourced from	The Bidder	-----
	Indian Subsidiary / JV Company/ Indian manufacturing	0.3%

DJU	Executants	BG
the associate meeting the requirement of clause 1.6.1)	company meeting requirements at 1.6.1 & 3.0.0	
For Steam Turbine Generator	The Bidder	-----
	QSTGM (applicable if other than bidder)	0.3%
	Indian Subsidiary / JV Company for Steam Turbine Generator	0.15%
	Other promoter having 25% or higher equity participation in Indian Subsidiary Company / JV Company for Steam Turbine Generator	0.15%
	Qualified Generator Manufacturer (If applicable)	0.1%
For Steam turbine Generator (if the Steam turbine Generator is being sourced from the associate meeting the requirement of clause 1.6.1)	The Bidder	-----
	Indian Subsidiary / JV Company/ Indian manufacturing company meeting requirements at 1.6.1 & 3.0.0	0.3%
For Project Management If applicable as per clause 4.1.0	The Bidder	-----
	Project Management Organization	INR 20 Million
For Engineering If applicable as per clause 5.0.0	The Bidder	----
	Architect Engineering Firm	INR 1.5 Million
<p>➤ In the Deed of Joint Undertaking for Steam Generator and Auxiliaries, all the executants of DJU shall be jointly and severally liable to the Employer for successful performance of the contract for the scope related to steam generator and auxiliaries as per the format enclosed in the bidding documents.</p> <p>➤ In the Deed of Joint Undertaking for Steam Turbine Generator and Auxiliaries all the executants of DJU shall be jointly and severally liable to the Employer for successful performance of the contract for the scope related to Steam Turbine Generator and Auxiliaries including turbine cycle, regenerative feed heating and pumping system as per the format enclosed in the bidding documents.</p> <p>➤ Qualified Generator Manufacturer (wherever applicable) shall be liable to the Employer for successful performance of the generator and its auxiliaries as per the format enclosed in the bidding documents</p> <p>➤ Where the Bank Guarantee (BG) amount is indicated as %, the same shall be % of the total contract price.</p> <p>➤ In case the Bidder gets qualified using notes and/or other clauses then the DJU and BG requirement indicated in such notes / clauses shall also apply in addition to above.</p> <p>➤ The Deeds of Joint Undertaking shall be submitted along with techno-commercial bid, failing which the Bidder shall be disqualified and its bid shall be rejected.</p> <p>➤ Applicable BGs are in addition to the contract performance security to be furnished by the Bidder.</p> <p>➤ Applicable BGs shall be furnished in case of award.</p>		

- 1.1.4 A super critical steam turbine manufacturer who meets the requirements of clause 1.1.1(B) except for generator would also qualify provided the Subsidiary Company / JV Company (as the case may be) associates and have a Technology Transfer agreement with a Generator Manufacturer who meets the requirements of clause 1.1.1(B) fully in respect of generator, hereinafter referred to as Qualified Generator Manufacturer.

The Qualified Generator Manufacturer shall maintain a minimum equity participation of 10 % in the Indian Subsidiary Company or the JV Company (as the case may be), for a lock-in period of 7 years from the date of incorporation of the Indian Subsidiary Company or JV Company (as the case may be) or up to the end of defect liability period of the contract whichever is later.

The Qualified Generator Manufacturer shall necessarily be one of the executants of DJU being submitted by the Bidder (for steam turbine generator and auxiliaries) as per clause 1.1.3 above.

1.2.0 Route 2: Indian Steam Generator and/or Steam Turbine Generator Manufacturer

1.2.1

A) For Steam Generator

- (a) The Bidder should have designed, engineered, manufactured/got manufactured, erected/ supervised erection, commissioned/ supervised commissioning of at least one number of pulverized coal fired steam generator for a minimum of 200 MW unit size or rated capacity of 650 tonnes of steam per hour or higher, which should have been in successful operation for a period of not less than one (1) year prior to the date of techno-commercial bid opening.
- (b) The Bidder should have manufactured and supplied the pressure parts such as straight water wall, spiral water wall, economizer, superheater & reheater coils for a supercritical unit of 500MW or higher size from its Indian manufacturing facility in at least one (1) number pulverized coal fired steam generator which should have been commissioned prior to the date of techno-commercial bid opening.
- (c) (i) Bidder should have a valid ongoing Technology License Agreement including license to manufacture and supply supercritical steam generator in India, covering the type, size and rating specified with a Qualified Steam Generator Manufacturer (QSGM) meeting requirements of clause 1.1.1(A). Such Technology license agreement shall be valid minimum up to the end of the defect liability period of the contract.

Bidder shall furnish a Letter of Support for technical assistance from the technology licensor, as per the format enclosed in the bidding documents.

Additionally, Bidder shall furnish Letter of Undertaking for satisfactory performance of the contract, as per format enclosed in the bidding documents.

The above Letter of Support and Letter of Undertaking should be valid till end of defect liability period of the contract and shall be submitted along with techno-commercial bid, failing which the Bidder shall be disqualified and its bid shall be rejected.

OR

(ii) Bidder should have executed Technology License Agreement including license to manufacture and supply supercritical steam generator in India, covering the type, size and rating specified with a Qualified Steam Generator Manufacturer (QSGM) meeting requirements of clause 1.1.1(A) or Technology Owner.

Additionally, Bidder should have completed Technology Transfer under this license. The Technology transfer should be certified by Technology Licensor/ Technology Owner.

Further, Bidder should have a valid legal binding agreement with a domain experts group company (a company formed and existing under the laws of country of QSGM), as per format enclosed in the bidding documents, for providing services from its domain experts, for design and engineering of supercritical Steam Generator.

The domain experts, as mentioned above, shall necessarily have prior experience of designing and engineering of pulverized coal (i.e. sub-bituminous coal) fired supercritical steam generator duly certified by the QSGM.

Bidder shall also furnish Letter of Undertaking for satisfactory performance of the contract, as per format enclosed in the bidding documents.

The legal binding agreement and letter of undertaking should be valid till end of defect liability period of the contract and shall be submitted along with techno-commercial bid, failing which the Bidder shall be disqualified and its bid shall be rejected.

- (d) The Bidder shall offer only the type of Steam Generators i.e. single pass (tower type) or two pass type and type of water wall tubing for which its QSGM (who shall certify the experience of domain experts) or its Technology Licensor, meeting the requirements of clause 1.1.1(A). In addition, the above Steam Generator should have been provided with evaporator suitable for variable pressure operation (sub-critical and super-critical pressure ranges).

B) For Steam Turbine Generator

- (i) The Bidder should have designed, engineered, manufactured/got manufactured, erected/ supervised erection, commissioned/ supervised commissioning at least one (1) number of reheat type of steam turbine and generator set of 500 MW or above capacity, which should have been in successful operation for a period of not less than one (1) year prior to the date of techno-commercial bid opening.
- (ii) Such bidder should have valid ongoing collaboration and technology transfer agreement(s) including license to manufacture and supply supercritical steam turbine generator sets covering the type, size and rating specified, in India with a Qualified Steam Turbine Generator manufacturer meeting requirements of clause 1.1.1(B), valid minimum up to the end of the defect liability period of the contract.

OR

Such bidder should have successfully completed "Phased Manufacturing Program (PMP)" for supercritical steam turbine generator. However, certificate in support of completion of such PMP duly issued by the competent authority or proof of release of the bank guarantee by any Central / State power generating company shall be submitted along with the techno-commercial bid.

- (iii) Bidder shall also furnish Letter to ensure satisfactory performance of the contract, as per format enclosed in the bidding documents

1.2.2 In case the Bidder meets the requirements indicated at 1.2.1 above for either steam generator sets or steam turbine generator sets (and not for both) then the Bidder shall associate/ collaborate for the other equipment with either of the following and shall source the equipment i.e. steam turbine generator sets or steam generator sets, only from such qualified associate.

(i) Qualified Steam Turbine Generator Manufacturer or Qualified Steam Generator Manufacturer, who shall in turn meet the requirements stipulated at 1.1.1(B) in conjunction with 1.1.4 (as applicable) or 1.1.1(A) above as the case may be along with requirements stipulated at 1.1.2 (a) / (b) and 3.0.0 for the respective equipment.

Or

(ii) Indian Steam Generator and/or Steam Turbine Generator manufacturing company meeting the requirements of clause 1.2.1 in respect of Steam Generator or Steam turbine Generator (as the case may be) and 3.0.0 for the respective equipment.

Or

(iii) Indian subsidiary / JV Company of Qualified Steam Turbine Generator Manufacturer or Qualified Steam Generator Manufacturer, who shall in turn meet the requirements stipulated at 1.3.1(a) in conjunction with 1.3.3 (if applicable) or 1.4.1(a) in conjunction with 1.4.3 (if applicable) as the case may be along with requirements stipulated at 3.0.0 for the respective equipment

Or

(iv) Indian Subsidiary Company / JV Company / Indian manufacturing company meeting the requirements of clause 1.6.1 in respect of supercritical Steam Generator or supercritical Steam turbine Generator (as the case may be) and 3.0.0 for the respective equipment.

1.2.3 The Bidder seeking qualification under 1.2.2 above shall furnish Deeds of Joint Undertaking (DJUs) for the respective equipment (as applicable) as per the following table:

DJU	Executants	BG
For Steam Generator	The Bidder	-----
	QSGM	0.3%
	Other promoter having 25% or higher equity participation in Indian Subsidiary Company / JV Company for Steam Generator	0.15%
	Indian Subsidiary Company / JV Company for Steam Generator (applicable if other than bidder)	0.15%
For Steam Generator (if the Steam Generator is being sourced from the associate meeting the requirement of clause 1.2.1)	The Bidder	-----
	Indian Steam Generator manufacturing company meeting requirements for Steam Generator at 1.2.1 & 3.0.0	0.6%
For Steam Generator (if the Steam Generator is being sourced from the associate meeting the requirement of clause 1.6.1)	The Bidder	-----
	Indian Subsidiary / JV Company/ Indian manufacturing company meeting requirements at 1.6.1 & 3.0.0	0.3%
For Steam Turbine Generator	The Bidder	-----
	QSTGM	0.3%
	Indian Subsidiary / JV Company for Steam Turbine Generator	0.15%

DJU	Executants	BG
	(applicable if other than bidder)	
	Other promoter having 25% or higher equity participation in Indian Subsidiary Company / JV Company for Steam Turbine Generator	0.15%
	Qualified Generator Manufacturer (If applicable)	0.1%
For Steam Turbine Generator (if the Steam Turbine Generator is being sourced from the associate meeting the requirement of clause 1.2.1)	The Bidder	-----
	Indian Steam Turbine Generator manufacturing company meeting requirements for Steam Turbine Generator at 1.2.1 & 3.0.0	0.5%
	Qualified Generator Manufacturer (If applicable)	0.1%
For Steam turbine Generator (if the Steam turbine Generator is being sourced from the associate meeting the requirement of clause 1.6.1)	The Bidder	-----
	Indian Subsidiary / JV Company/ Indian manufacturing company meeting requirements at 1.6.1 & 3.0.0	0.3%
For Project Management If applicable as per clause 4.1.0	The Bidder	-----
	Project Management Organization	INR 20 Million
For Engineering If applicable as per clause 5.0.0	The Bidder	----
	Architect Engineering Firm	INR 1.5 Million
<p>➤ In the Deed of Joint Undertaking for Steam Generator and Auxiliaries, all the executants of DJU shall be jointly and severally liable to the Employer for successful performance of the contract for the scope related to steam generator and auxiliaries as per the format enclosed in the bidding documents.</p> <p>➤ In the Deed of Joint Undertaking for Steam Turbine Generator and Auxiliaries all the executants of DJU shall be jointly and severally liable to the Employer for successful performance of the contract for the scope related to Steam Turbine Generator and Auxiliaries including turbine cycle, regenerative feed heating and pumping system as per the format enclosed in the bidding documents.</p> <p>➤ Qualified Generator Manufacturer (where ever applicable) shall be liable to the Employer for successful performance of the generator and its auxiliaries as per the format enclosed in the bidding documents</p> <p>➤ Where the Bank Guarantee (BG) amount is indicated as %, the same shall be % of the total contract price.</p> <p>➤ In case the Bidder gets qualified using notes and/or other clauses then the DJU and BG requirement indicated in such notes / clauses shall also apply in addition to above.</p> <p>➤ The Deeds of Joint Undertaking shall be submitted along with techno-commercial bid, failing which the Bidder shall be disqualified and its bid shall be rejected.</p> <p>➤ Applicable BGs are in addition to the contract performance security to be furnished by the Bidder.</p> <p>➤ Applicable BGs shall be furnished in case of award.</p>		

- 1.2.4 In case the Bidder has a valid ongoing collaboration and technology transfer agreement-with a super critical steam turbine manufacturer who meets the requirements of clause 1.1.1(B) except for generator would also qualify provided the super critical steam turbine manufacturer associates and has a Technology Transfer agreement with a Generator Manufacturer who meets the requirements of clause 1.1.1(B) fully in respect of generator.

The Qualified Generator Manufacturer shall necessarily be one of the executants of DJU being submitted by the Bidder (for steam turbine generator and auxiliaries) along with the techno-commercial bid as per clause 1.2.3 above, in which the Qualified Generator Manufacturer shall be liable to the Employer for successful performance of the generator and its auxiliaries as per the format enclosed in the bidding documents.

1.3.0 Route 3: Indian Subsidiary Company of a Qualified Steam Generator Manufacturer and/or Qualified Steam Turbine Generator Manufacturer

1.3.1(a) The Bidder shall be an Indian Subsidiary Company of a Qualified Steam Generator Manufacturer and/or a Qualified Steam Turbine Generator Manufacturer meeting requirements of clause 1.1.1(A) and/or 1.1.1(B) (as the case may be), registered in India under the Companies Act of India, as on the date of techno-commercial bid opening, for manufacturing supercritical steam generator and/or supercritical Steam Turbine Generator sets covering the type, size and rating specified. If the Subsidiary Company is incorporated as a public limited Company then it should have obtained certificate for Commencement of Business in India as on the date of techno-commercial bid opening.

The Subsidiary Company shall remain a subsidiary Company of the Qualified Steam Generator Manufacturer and/or Qualified Steam Turbine Generator Manufacturer for a minimum period of 7 years from the date of incorporation of such Subsidiary Company or up to the end of the defect liability period of the contract whichever is later.

(b) In case the Bidder meets the requirements indicated at 1.3.1(a) for either steam Generator sets or steam turbine generator sets (and not for both) then the Bidder shall associate/ collaborate for the other equipment with either of the following and shall source the equipment i.e. steam turbine generator set or steam generator set, only from such qualified associate.

(i) Qualified Steam Turbine Generator Manufacturer or Qualified Steam Generator Manufacturer, who shall in turn meet the requirements stipulated at 1.1.1(B) in conjunction with 1.1.4 (as applicable) or 1.1.1(A) above as the case may be along with requirements stipulated at 1.1.2 (a) / (b) and 3.0.0 for the respective equipment

Or

(ii) Indian subsidiary / JV Company of Qualified Steam Turbine Generator Manufacturer or Qualified Steam Generator Manufacturer, who shall in turn meet the requirements stipulated at 1.3.1(a) in conjunction with 1.3.3 (if applicable) or 1.4.1(a) in conjunction with 1.4.3 (if applicable) as the case may be along with requirements stipulated at 3.0.0 for the respective equipment

Or

(iii) Indian Subsidiary Company / JV Company / Indian manufacturing company meeting the requirements of clause 1.6.1 in respect of supercritical Steam Generator and/or supercritical Steam turbine Generator (as the case may be) and 3.0.0 for the respective equipment.

1.3.2 The Bidder shall furnish Deeds of Joint Undertaking (DJUs) as per the following table:

DJU	Executants	BG
For Steam Generator	The Bidder	-----
	QSGM	0.3%
	Other promoter having 25% or higher equity participation in Indian Subsidiary Company / JV Company for Steam	0.15%

DJU	Executants	BG
	Generator	
	Indian Subsidiary Company / JV Company for Steam Generator (applicable if other than bidder)	0.15%
For Steam Generator (if the Steam Generator is being sourced from the associate meeting the requirement of clause 1.6.1)	The Bidder	-----
	Indian Subsidiary / JV Company/ Indian manufacturing company meeting requirements at 1.6.1 & 3.0.0	0.3%
For Steam Turbine Generator	The Bidder	-----
	QSTGM	0.3%
	Indian Subsidiary / JV Company for Steam Turbine Generator (applicable if other than bidder)	0.15%
	Other promoter having 25% or higher equity participation in Indian Subsidiary Company / JV Company for Steam Turbine Generator	0.15%
	Qualified Generator Manufacturer (If applicable)	0.1%
For Steam turbine Generator (if the Steam turbine Generator is being sourced from the associate meeting the requirement of clause 1.6.1)	The Bidder	-----
	Indian Subsidiary / JV Company/ Indian manufacturing company meeting requirements at 1.6.1 & 3.0.0	0.3%
For Project Management If applicable as per clause 4.1.0	The Bidder	-----
	Project Management Organization	INR 20 Million
For Engineering If applicable as per clause 5.0.0	The Bidder	----
	Architect Engineering Firm	INR 1.5 Million
<p>➤ In the Deed of Joint Undertaking for Steam Generator and Auxiliaries, all the executants of DJU shall be jointly and severally liable to the Employer for successful performance of the contract for the scope related to steam generator and auxiliaries as per the format enclosed in the bidding documents.</p> <p>➤ In the Deed of Joint Undertaking for Steam Turbine Generator and Auxiliaries all the executants of DJU shall be jointly and severally liable to the Employer for successful performance of the contract for the scope related to Steam Turbine Generator and Auxiliaries including turbine cycle, regenerative feed heating and pumping system as per the format enclosed in the bidding documents.</p> <p>➤ Qualified Generator Manufacturer (wherever applicable) shall be liable to the Employer for successful performance of the generator and its auxiliaries as per the format enclosed in the bidding documents</p> <p>➤ Where the Bank Guarantee (BG) amount is indicated as %, the same shall be % of the total contract price.</p> <p>➤ In case the Bidder gets qualified using notes and/or other clauses then the DJU and BG requirement indicated in such notes / clauses shall also apply in addition to above.</p> <p>➤ The Deeds of Joint Undertaking shall be submitted along with techno-commercial bid, failing which the Bidder shall be disqualified and its bid shall be rejected.</p> <p>➤ Applicable BGs are in addition to the contract performance security to be furnished by the Bidder.</p> <p>➤ Applicable BGs shall be furnished in case of award.</p>		

- 1.3.3 In case the Bidder is an Indian Subsidiary Company of a super critical steam turbine manufacturer as its promoter meeting the requirements of clause 1.1.1(B) except for generator or if the Bidder's associate is supercritical steam turbine manufacturer meeting the requirements of clause 1.1.1(B) except for generator would also qualify provided the Subsidiary Company / JV Company of the supercritical steam turbine generator manufacturer associates and has a Technology Transfer agreement with a Generator Manufacturer who meets the requirements of clause 1.1.1(B) fully in respect of generator.

The Qualified Generator Manufacturer shall maintain a minimum equity participation of 10 % in the Indian Subsidiary Company / JV Company for a lock-in period of 7 years from the date of incorporation of the Indian Subsidiary Company /JV Company or up to the end of defect liability period of the contract, whichever is later.

The Qualified Generator Manufacturer shall necessarily be one of the executants of DJU being submitted by the Bidder (for steam turbine generator and auxiliaries) as per clause 1.3.2 above.

1.4.0 **Route 4: Indian Joint Venture (JV) Company for manufacturing of Super Critical Steam Generator and/or Super Critical Steam Turbine Generator in India between an Indian Company and a Qualified Steam Generator and/or Qualified Steam Turbine Generator Manufacturer**

- 1.4.1(a) The Bidder shall be a Joint Venture (JV) Company incorporated in India under the Companies Act of India, as on the date of techno-commercial bid opening, promoted by (i) an Indian Company registered in India under the Companies Act of India and (ii) a Qualified Steam Generator Manufacturer and/or Qualified Steam Turbine Generator Manufacturer meeting requirements of clause 1.1.1(A) and/or 1.1.1(B) (as the case may be), created for the purpose of manufacturing in India supercritical steam generator and/or supercritical steam turbine generator sets covering the type, size and rating specified. If the JV Company is incorporated as a public limited Company then it should have obtained certificate for Commencement of Business in India as on the date of techno-commercial bid opening.

The Qualified Steam Generator Manufacturer and/or Qualified Steam Turbine Generator Manufacturer shall maintain a minimum equity participation of 26% in the JV Company for a lock-in period of 7 years from the date of incorporation of JV Company or up to the end of the defect liability period of the contract whichever is later.

One of the promoters shall be a majority stakeholder who shall maintain a minimum equity participation of 51% in the JV Company for a lock in period of 7 years from the date of incorporation of JV Company or up to the end of the defect liability period of the contract whichever is later.

In the event that the majority stake holder in the JV Company is an entity other than the Qualified Steam Generator Manufacturer and/or Qualified Steam Turbine Generator Manufacturer, it should be an Indian Company and should have executed, in the last 10 years from the last day of month previous to one in which NIT has been invited, industrial projects on EPC basis (with or without civil works) in the area of power, steel, oil & gas, petro-chemical, fertilizer, flue gas desulphurization, cement and / or any other process industry with the total value of such projects being INR 10000 million or more. At least one of such projects should have a contract value of INR 4000 million or more. These projects shall be in successful operation for a period of not less than one year prior to the date of techno-commercial bid opening.

- (b) In case the Bidder meets the requirements indicated at 1.4.1(a) for either steam Generator sets or steam turbine generator sets (and not for both) then the Bidder shall associate/ collaborate for the other equipment with either of the following and shall source the equipment i.e. steam turbine generator set or steam generator set, only from such qualified associate.

(i) Qualified Steam Turbine Generator Manufacturer or Qualified Steam Generator Manufacturer, who shall in turn meet the requirements stipulated at 1.1.1(B) in conjunction with 1.1.4 (as applicable) or 1.1.1(A) above as the case may be along with requirements stipulated at 1.1.2 (a) / (b) and 3.0.0 for the respective equipment

Or

(ii) Indian subsidiary / JV Company of Qualified Steam Turbine Generator Manufacturer or Qualified Steam Generator Manufacturer, who shall in turn meet the requirements stipulated at 1.3.1(a) in conjunction with 1.3.3 (if applicable) or 1.4.1(a) in conjunction with 1.4.3 (if applicable) as the case may be along with requirements stipulated at 3.0.0 for the respective equipment

Or

(iii) Indian Subsidiary Company / JV Company / Indian manufacturing company meeting the requirements of clause 1.6.1 in respect of supercritical Steam Generator and/or supercritical Steam turbine Generator (as the case may be) and 3.0.0 for the respective equipment.

1.4.2 The Bidder shall furnish Deeds of Joint Undertaking (DJUs) as per the following table:

DJU	Executants	BG
Steam Generator	The Bidder	----
	QSGM	0.3%
	Other promoter having 25% or higher equity participation in Indian Subsidiary/ JV Company for Steam Generator	0.15%
	Indian Subsidiary/ JV Company for Steam Generator (applicable if other than bidder)	0.15%
For Steam Generator (if the Steam Generator is being sourced from the associate meeting the requirement of clause 1.6.1)	The Bidder	-----
	Indian Subsidiary / JV Company/ Indian manufacturing company meeting requirements at 1.6.1 & 3.0.0	0.3%
For Steam Turbine Generator	The Bidder	-----
	QSTGM	0.3%
	Indian Subsidiary / JV Company for Steam Turbine Generator (applicable if other than bidder)	0.15%
	Other promoter having 25% or higher equity participation in Indian Subsidiary Company / JV Company for Steam Turbine Generator	0.15%
	Qualified Generator Manufacturer (If applicable)	0.1%
For Steam turbine Generator (if the Steam turbine Generator is being sourced from the associate meeting the requirement of clause 1.6.1)	The Bidder	-----
	Indian Subsidiary / JV Company/ Indian manufacturing company meeting requirements at 1.6.1 & 3.0.0	0.3%
For Project Management If applicable as per clause 4.1.0	The Bidder	-----
	Project Management Organization	INR 20 Million
For Engineering If applicable as per clause 5.0.0	The Bidder	----
	Architect Engineering Firm	INR 1.5

DJU	Executants	BG
		Million
<ul style="list-style-type: none"> ➤ In the Deed of Joint Undertaking for Steam Generator and Auxiliaries, all the executants of DJU shall be jointly and severally liable to the Employer for successful performance of the contract for the scope related to steam generator and auxiliaries as per the format enclosed in the bidding documents. ➤ In the Deed of Joint Undertaking for Steam Turbine Generator and Auxiliaries all the executants of DJU shall be jointly and severally liable to the Employer for successful performance of the contract for the scope related to Steam Turbine Generator and Auxiliaries including turbine cycle, regenerative feed heating and pumping system as per the format enclosed in the bidding documents. ➤ Qualified Generator Manufacturer (wherever applicable) shall be liable to the Employer for successful performance of the generator and its auxiliaries as per the format enclosed in the bidding documents ➤ Where the Bank Guarantee (BG) amount is indicated as %, the same shall be % of the total contract price. ➤ In case the Bidder gets qualified using notes and/or other clauses then the DJU and BG requirement indicated in such notes / clauses shall also apply in addition to above. ➤ The Deeds of Joint Undertaking shall be submitted along with techno-commercial bid, failing which the Bidder shall be disqualified and its bid shall be rejected. ➤ Applicable BGs are in addition to the contract performance security to be furnished by the Bidder. ➤ Applicable BGs shall be furnished in case of award. 		

- 1.4.3 In case the Bidder is an Indian Joint Venture Company with a super critical steam turbine manufacturer as one of the promoters meeting the requirements of clause 1.1.1(B) except for generator or if the Bidder's associate is supercritical steam turbine manufacturer meeting the requirements of clause 1.1.1(B) except for generator would also qualify provided the JV Company/ Subsidiary Company of the super critical steam turbine generator manufacturer associates and have a Technology Transfer agreement with a Generator Manufacturer who meets the requirements of clause 1.1.1(B) fully in respect of generator.

The Qualified Generator Manufacturer shall maintain a minimum equity participation of 10 % in the Indian JV Company / Subsidiary Company, for a lock-in period of 7 years from the date of incorporation of the Indian JV Company / Subsidiary Company or up to the end of defect liability period of the contract whichever is later.

The Qualified Generator Manufacturer shall necessarily be one of the executants of DJU being submitted by the Bidder (for steam turbine generator and auxiliaries) as per clause 1.4.2 above.

- 1.5.0 **Route 5: Indian Company who holds at least 51% equity in a Joint Venture Company for manufacturing Super Critical Steam Generator and/or supercritical Steam Turbine Generator sets in India between an Indian Company and a Qualified Steam Generator and/or Qualified Steam Turbine Generator Manufacturer**

- 1.5.1(a) The Bidder shall be Indian Company who holds majority stake in a Joint Venture Company incorporated in India under the Companies Act of India as on the date of techno-commercial bid opening, promoted by (i) a Company registered in India under the Companies Act of India and (ii) a Qualified Steam Generator and/or Qualified Steam Turbine Generator Manufacturer meeting requirements of clause 1.1.1(A) and/or 1.1.1(B) (as the case may be), created for the purpose of manufacturing supercritical steam generator and/or supercritical steam turbine generator sets in India, covering the type, size and rating specified. If the JV Company is incorporated as a public limited Company then it should have obtained certificate for Commencement of Business in India as on the date of techno-commercial bid opening.

The Qualified Steam Generator and/or Qualified Steam Turbine Generator Manufacturer shall maintain a minimum equity participation of 26% in the JV Company for a lock-in period of 7 years from the date of incorporation of JV Company or up to the end of the defect liability period of the contract whichever is later.

The Bidder shall maintain a minimum equity participation of 51% in the JV Company for a lock in period of 7 years from the date of incorporation of JV Company or up to the end of the defect liability period of the contract whichever is later.

The Bidder should have executed in the last 10 years from the last day of month previous to one in which NIT has been invited industrial projects on EPC basis (with or without civil works) in the area of power, steel, oil & gas, petro-chemical, fertilizer, flue gas desulphurization, cement and / or any other process industry with the total value of such projects being INR 10000 million or more. At least one of such projects should have a contract value of INR 4000 million or more. These projects shall be in successful operation for a period of not less than one year prior to the date of techno-commercial bid opening.

- (b) In case the Bidder meets the requirements indicated at 1.5.1(a) for either steam Generator sets or steam turbine generator sets (and not for both) then the Bidder shall associate/ collaborate for the other equipment with either of the following and shall source the equipment i.e. steam turbine generator set or steam generator set, only from such qualified associate.
- (i) Qualified Steam Turbine Generator Manufacturer or Qualified Steam Generator Manufacturer, who shall in turn meet the requirements stipulated at 1.1.1(B) in conjunction with 1.1.4 (as applicable) or 1.1.1(A) above as the case may be along with requirements stipulated at 1.1.2 (a) / (b) and 3.0.0 for the respective equipment
- Or
- (ii) Indian subsidiary / JV Company of Qualified Steam Turbine Generator Manufacturer or Qualified Steam Generator Manufacturer, who shall in turn meet the requirements stipulated at 1.3.1(a) in conjunction with 1.3.3 (if applicable) or 1.4.1(a) in conjunction with 1.4.3 (if applicable) as the case may be along with requirements stipulated at 3.0.0 for the respective equipment
- Or
- (iii) Indian Subsidiary Company / JV Company / Indian manufacturing company meeting the requirements of clause 1.6.1 in respect of supercritical Steam Generator and/or supercritical Steam turbine Generator (as the case may be) and 3.0.0 for the respective equipment.

1.5.2 The Bidder shall furnish Deeds of Joint Undertaking (DJUs) as per the following table:

DJU	Executants	BG
For Steam Generator	The Bidder	----
	QSGM	0.3%
	Indian Subsidiary / JV Company For Steam Generator	0.15%
	Other promoter having 25% or higher equity participation in Indian Subsidiary/ JV Company for Steam Generator (applicable if other than bidder)	0.15%
For Steam Generator (if the Steam Generator is being sourced from the associate meeting the requirement of clause 1.6.1)	The Bidder	-----
	Indian Subsidiary / JV Company/ Indian manufacturing company meeting requirements at 1.6.1 & 3.0.0	0.3%

DJU	Executants	BG
For Steam Turbine Generator	The Bidder	-----
	QSTGM	0.3%
	Indian Subsidiary / JV Company for Steam Turbine Generator	0.15%
	Other promoter having 25% or higher equity participation in Indian Subsidiary Company / JV Company for Steam Turbine Generator (applicable if other than bidder)	0.15%
	Qualified Generator Manufacturer (If applicable)	0.1%
For Steam turbine Generator (if the Steam turbine Generator is being sourced from the associate meeting the requirement of clause 1.6.1)	The Bidder	-----
	Indian Subsidiary / JV Company/ Indian manufacturing company meeting requirements at 1.6.1 & 3.0.0	0.3%
For Project Management If applicable as per clause 4.1.0	The Bidder	-----
	Project Management Organization	INR 20 Million
For Engineering If applicable as per clause 5.0.0	The Bidder	----
	Architect Engineering Firm	INR 1.5 Million
<p>➤ In the Deed of Joint Undertaking for Steam Generator and Auxiliaries, all the executants of DJU shall be jointly and severally liable to the Employer for successful performance of the contract for the scope related to steam generator and auxiliaries as per the format enclosed in the bidding documents.</p> <p>➤ In the Deed of Joint Undertaking for Steam Turbine Generator and Auxiliaries all the executants of DJU shall be jointly and severally liable to the Employer for successful performance of contract for the scope related to Steam Turbine Generator and Auxiliaries including turbine cycle, regenerative feed heating and pumping system as per the format enclosed in the bidding documents.</p> <p>➤ Qualified Generator Manufacturer (wherever applicable) shall be liable to the Employer for successful performance of the generator and its auxiliaries as per the format enclosed in the bidding documents</p> <p>➤ Where the Bank Guarantee (BG) amount is indicated as %, the same shall be % of the total contract price.</p> <p>➤ In case the Bidder gets qualified using notes and/or other clauses then the DJU and BG requirement indicated in such notes / clauses shall also apply in addition to above.</p> <p>➤ The Deeds of Joint Undertaking shall be submitted along with techno-commercial bid, failing which the Bidder shall be disqualified and its bid shall be rejected.</p> <p>➤ Applicable BGs are in addition to the contract performance security to be furnished by the Bidder.</p> <p>➤ Applicable BGs shall be furnished in case of award.</p>		

- 1.5.3 In case the Indian Joint Venture Company of the Bidder has a super critical steam turbine manufacturer as one of its promoters, who meets the requirements of clause 1.1.1(B) except for generator or if the Bidder's associate is supercritical steam turbine manufacturer meeting the requirements of clause 1.1.1(B) except for generator would also qualify provided the JV Company/ Subsidiary Company of the supercritical steam turbine generator manufacturer associates and have a Technology Transfer agreement with a Generator Manufacturer who meets the requirements of clause 1.1.1(B) fully in respect of generator.

The Qualified Generator Manufacturer shall maintain a minimum equity participation of 10 % in the Indian JV Company/ Subsidiary Company, for a lock-in period of 7 years from the date of incorporation of the Indian JV Company/ Subsidiary Company or up to the end of defect liability period of the contract whichever is later.

The Qualified Generator Manufacturer shall necessarily be one of the executants of DJU being submitted by the Bidder (for steam turbine generator and auxiliaries) as per clause 1.5.2 above.

1.6.0 Route 6: Indian Steam Generator and/or Indian Steam Turbine Generator Manufacturer

1.6.1 The bidder should be an Indian manufacturing company which is a supercritical Steam Generator manufacturer and/or a supercritical Steam turbine Generator manufacturer, as the case may be, and meets the following criteria.

Eight (8) Nos. supercritical Steam Generators and/or supercritical Steam Turbine Generators (as the case may be) manufactured/supplied in India by the Indian Subsidiary/JV Company / Indian manufacturing company should be in commercial operation (achieved COD) out of which four (4) such Steam Generators and/or Steam Turbine Generators (as the case may be) should have been in commercial operation for at least one year and Performance Guarantee (PG) Test should have been successfully completed in any two (2) such Steam Generators and/or steam turbine generators (as the case may be) prior to the date of techno-commercial bid opening.

In case any problem related to supercritical Steam Generators and/or supercritical Steam Turbine Generators (as the case may be) & Auxiliaries is encountered during execution of the contract, bidder shall resolve the same within a reasonable time (in the opinion of the owner) by itself/through its collaborator/through firm having competency to resolve such issues. If the problem is not resolved within a reasonable period of time in the opinion of the owner, Owner shall have the option to approach directly to the collaborator/licensor/technology Provider or any other firm to resolve the issue. In such a case the financial expenditure(s) incurred by Owner for resolution of such issues will be to bidder's account. Accordingly, bidder shall be required to submit a letter along with the techno commercial bid valid up to the end of defect liability period of the contract, as per the format enclosed in the bidding documents.

The bidder shall offer only the type of steam generator and the steam turbine generator for which it or its collaborator / associate (as per clause 1.6.2 below) is qualified.

1.6.2(a) In case the Bidder meets the requirements indicated at 1.6.1 above for either steam Generator sets or steam turbine generator sets (and not for both) then the Bidder shall associate/ collaborate for the other equipment with either of the following and shall source the equipment i.e. steam turbine generator sets or steam generator sets, only from such qualified associate.

(i) Qualified Steam Turbine Generator Manufacturer or Qualified Steam Generator Manufacturer, who shall in turn meet the requirements stipulated at 1.1.1(B) in conjunction with 1.1.4 (as applicable) or 1.1.1(A) above as the case may be along with requirements stipulated at 1.1.2 (a) / (b) and 3.0.0 for the respective equipment

Or

(ii) Indian Steam Turbine Generator and/or Indian Steam Generator Manufacturer, who shall in turn meet the requirements stipulated at 1.2.1 in conjunction with 1.2.4 (as applicable) above along with requirements stipulated at 3.0.0 for the respective equipment

Or

(iii) Indian subsidiary / JV Company of Qualified Steam Turbine Generator Manufacturer or Qualified Steam Generator Manufacturer, who shall in turn meet the requirements stipulated at 1.3.1(a) in conjunction with 1.3.3 (if applicable) or 1.4.1(a) in conjunction with 1.4.3 (if applicable) as the case may be along with requirements stipulated at 3.0.0 for the respective equipment

Or

(iv) Indian Subsidiary Company / JV Company / Indian manufacturing company meeting the requirements of clause 1.6.1 in respect of supercritical Steam Generator or supercritical Steam turbine Generator (as the case may be) and 3.0.0 for the respective equipment.

- (b) The Bidder seeking qualification under (a) above shall furnish Deeds of Joint Undertaking (DJUs) for the respective equipment (as applicable) as per the following table:

DJU	Executants	BG
For Steam Generator (applicable if the Steam Generator is being sourced from the associate as per clause 1.6.2 (a) (i) or 1.6.2 (a) (iii))	The Bidder	----
	QSGM	0.3%
	Other promoter having 25% or higher equity participation in Indian Subsidiary/ JV Company for Steam Generator	0.15%
	Indian Subsidiary/ JV Company for Steam Generator	0.15%
For Steam Generator (applicable if the Steam Generator is being sourced from the associate as per clause 1.6.2 (a) (ii))	The Bidder	----
	Indian Steam Generator Manufacturer meeting the requirements stipulated at 1.2.1 for Steam Generator and 3.0.0	0.6%
For Steam Generator (applicable if the Steam Generator is being sourced from the associate as per clause 1.6.2 (a) (iv))	The Bidder	-----
	Indian Subsidiary / JV Company/ Indian manufacturing company meeting requirements at 1.6.1 & 3.0.0	0.3%
For Steam Turbine Generator (applicable if the Steam turbine Generator is being sourced from the associate as per clause 1.6.2 (a) (i) or 1.6.2 (a) (iii))	The Bidder	-----
	QSTGM	0.3%
	Indian Subsidiary / JV Company for Steam Turbine Generator	0.15%
	Other promoter having 25% or higher equity participation in Indian Subsidiary Company / JV Company for Steam Turbine Generator	0.15%
	Qualified Generator Manufacturer (If applicable)	0.1%
For Steam Turbine Generator (applicable if the Steam turbine Generator is being sourced from the associate as per clause 1.6.2 (a) (ii))	The Bidder	-----
	Indian Steam Turbine Generator Manufacturer meeting the requirements stipulated at 1.2.1 for Steam Turbine Generator and 3.0.0	0.5%
	Qualified Generator Manufacturer (If applicable)	0.1%
For Steam turbine Generator (applicable if the Steam turbine Generator is being sourced from the associate as per clause 1.6.2 (a) (iv))	The Bidder	-----
	Indian Subsidiary/ JV Company/ Indian manufacturing company meeting requirements at 1.6.1 & 3.0.0	0.3%

DJU	Executants	BG
<ul style="list-style-type: none"> ➤ In the Deed of Joint Undertaking for Steam Generator and Auxiliaries, all the executants of DJU shall be jointly and severally liable to the Employer for successful performance of the contract for the scope related to steam generator and auxiliaries as per the format enclosed in the bidding documents. ➤ In the Deed of Joint Undertaking for Steam Turbine Generator and Auxiliaries all the executants of DJU shall be jointly and severally liable to the Employer for successful performance of the contract for the scope related to Steam Turbine Generator and Auxiliaries including turbine cycle, regenerative feed heating and pumping system as per the format enclosed in the bidding documents. ➤ If the Steam Generators/steam turbine generators are being sourced from the associate as per clause 1.6.2 (a) (ii), then in the Deed of Joint Undertaking the liability of the Indian Steam Generator manufacturer / Indian steam turbine generator manufacturer shall be as defined at clause 1.2.0 for the respective equipment as per the format enclosed in the bidding documents. ➤ Qualified Generator Manufacturer (wherever applicable) shall be liable to the Employer for successful performance of the generator and its auxiliaries as per the format enclosed in the bidding documents ➤ Where the Bank Guarantee (BG) amount is indicated as %, the same shall be % of the total contract price. ➤ In case the Bidder gets qualified using notes and/or other clauses then the DJU and BG requirement indicated in such notes / clauses shall also apply in addition to above. ➤ The Deeds of Joint Undertaking shall be submitted along with techno-commercial bid, failing which the Bidder shall be disqualified and its bid shall be rejected. ➤ Applicable BGs are in addition to the contract performance security to be furnished by the Bidder. ➤ Applicable BGs shall be furnished in case of award. 		

1.6.3 The Bidder shall furnish Deeds of Joint Undertaking (DJUs) as per the following table:

For Project Management If applicable as per clause 4.1.0	The Bidder	-----
	Project Management Organization	INR 20 Million
For Engineering If applicable as per clause 5.0.0	The Bidder	----
	Architect Engineering Firm	INR 1.5 Million
<ul style="list-style-type: none"> ➤ The Deeds of Joint Undertaking shall be submitted along with techno-commercial bid, failing which the Bidder shall be disqualified and its bid shall be rejected. ➤ Applicable BGs are in addition to the contract performance security to be furnished by the Bidder. ➤ Applicable BGs shall be furnished in case of award. 		

1.6.4 In case the Bidder's associate is supercritical steam turbine manufacturer meeting the requirements of clause 1.1.1(B) except for generator would also qualify provided the JV Company/ Subsidiary Company of the super critical steam turbine generator manufacturer associates and have a Technology Transfer agreement with a Generator Manufacturer who meets the requirements of clause 1.1.1(B) fully in respect of generator.

The Qualified Generator Manufacturer shall maintain a minimum equity participation of 10 % in the Indian JV Company / Subsidiary Company, for a lock-in period of 7 years from the date of incorporation of the Indian JV Company / Subsidiary Company or up to the end of defect liability period of the contract whichever is later.

The Qualified Generator Manufacturer shall necessarily be one of the executants of DJU being submitted by the Bidder (for steam turbine generator and auxiliaries) as per clause 1.6.2 above.

1.7.0 Route 7: Company having experience of 500MW Supercritical/Sub-critical units on EPC Basis

1.7.1(a) The Bidder should have executed on Engineering, Procurement and Construction (EPC) basis, minimum one (1) no. 500MW or above pulverized Coal fired Supercritical/Sub-critical unit comprising of at least steam generator and

steam turbine generator sets along with their associated auxiliary equipments, electrostatic precipitators/bag filters including associated civil works for the above equipments and systems, which is in successful operation for a period of not less than one (1) year prior to the date of techno-commercial bid opening.

- (b) The Bidder meeting the requirements indicated at 1.7.1(a) above except for electrostatic precipitators/bag filters would also qualify provided the Bidder meets the requirement indicated at 4.1.0(b) or associates with a Project Management Organization meeting the requirement indicated at 4.1.0(b).

1.7.2 The Bidder shall associate/ collaborate for the (i) Steam Generator and (ii) Steam Turbine Generator sets and shall source these equipments only from the Associate / Collaborator who meets the following:

- (i) Qualified Steam Generator Manufacturer, who shall in turn meet the requirements stipulated at 1.1.1(A) along with requirements stipulated at 1.1.2 (a) / (b) and 3.0.0 for the Steam Generator

Or

Indian Steam generator manufacturer who in turn shall meet the requirements stipulated at 1.2.1 with respect to steam generator along with requirements stipulated at 3.0.0 in respect of Steam Generator.

Or

Indian subsidiary / JV Company of Qualified Steam Generator Manufacturer, who shall in turn meet the requirements, stipulated at 1.3.1(a) or 1.4.1(a) as the case may be along with requirements stipulated at 3.0.0 for the Steam Generator

Or

Indian Subsidiary Company / JV Company / Indian manufacturing company meeting the requirements of clause 1.6.1 in respect of supercritical Steam Generator and 3.0.0 for the respective equipment.

- (ii) Qualified Steam Turbine Generator Manufacturer, who shall in turn meet the requirements stipulated at 1.1.1(B) in conjunction with 1.1.4 (as applicable) above along with requirements stipulated at 1.1.2 (a) / (b) and 3.0.0 for the Steam Turbine Generator Sets.

Or

Indian Steam turbine generator manufacturer who in turn shall meet the requirements stipulated at 1.2.1 with respect to steam turbine generator in conjunction with 1.2.4 (if applicable) along with requirements stipulated at 3.0.0 in respect of Steam Turbine Generator Sets.

Or

Indian subsidiary / JV Company of Qualified Steam Turbine Generator Manufacturer, who shall in turn meet the requirements stipulated at 1.3.1(a) in conjunction with 1.3.3 (if applicable) or 1.4.1 (a) in conjunction with 1.4.3 (if applicable) along with requirements stipulated at 3.0.0 for the Steam Turbine Generator Sets.

Or

Indian Subsidiary Company / JV Company / Indian manufacturing company meeting the requirements of clause 1.6.1 in respect of supercritical Steam turbine Generator and 3.0.0 for the respective equipment.

1.7.3 The Bidder shall furnish Deeds of Joint Undertaking (DJUs) as per the following table:

DJU	Executants	BG
For Steam Generator	The Bidder	-----
	QSGM	0.3%
	Indian Subsidiary / JV Company for Steam Generator	0.15%
	Other promoter having 25% or higher equity participation in Indian Subsidiary Company / JV Company for Steam Generator	0.15%
For Steam Generator (if the Steam Generator is being sourced from the associate meeting the requirement of clause 1.2.1)	The Bidder	-----
	Indian Steam Generator manufacturing company meeting requirements at for Steam Generator 1.2.1 & 3.0.0	0.6%
For Steam Generator (if the Steam Generator is being sourced from the associate meeting the requirement of clause 1.6.1)	The Bidder	-----
	Indian Subsidiary / JV Company/ Indian manufacturing company meeting requirements at 1.6.1 & 3.0.0	0.3%
For Steam Turbine Generator	The Bidder	-----
	QSTGM	0.3%
	Indian Subsidiary / JV Company for Steam Turbine Generator	0.15%
	Other promoter having 25% or higher equity participation in associate's Indian Subsidiary Company / JV Company for Steam Turbine Generator	0.15%
	Qualified Generator Manufacturer (If applicable)	0.1%
For Steam Turbine Generator (if the Steam Turbine Generator is being sourced from the associate meeting the requirement of clause 1.2.1)	The Bidder	-----
	Indian Steam Turbine Generator manufacturing company meeting requirements at 1.2.1 for Steam Turbine Generator & 3.0.0	0.5%
	Qualified Generator Manufacturer (If applicable)	0.1%
For Steam turbine Generator (if the Steam turbine Generator is being sourced from the associate meeting the requirement of clause 1.6.1)	The Bidder	-----
	Indian Subsidiary / JV Company/ Indian manufacturing company meeting requirements at 1.6.1 & 3.0.0	0.3%
For Project Management If applicable as per clause 4.1.0(b)	The Bidder	-----
	Project Management Organization	INR 20 Million
For Engineering If applicable as per clause 5.0.0	The Bidder	----
	Architect Engineering Firm	INR 1.5 Million
<p>➤ In the Deed of Joint Undertaking for Steam Generator and Auxiliaries, all the executants of DJU shall be jointly and severally liable to the Employer for successful performance of the contract for the scope related to steam generator and auxiliaries as per the format enclosed in the bidding documents.</p> <p>➤ In the Deed of Joint Undertaking for Steam Turbine Generator and Auxiliaries all the executants of DJU shall be jointly and severally liable to the Employer for successful performance of the contract for the scope related to Steam Turbine Generator and Auxiliaries including turbine cycle, regenerative feed heating and pumping</p>		

DJU	Executants	BG
<p>system as per the format enclosed in the bidding documents.</p> <ul style="list-style-type: none"> ➤ Qualified Generator Manufacturer (wherever applicable) shall be liable to the Employer for successful performance of the generator and its auxiliaries as per the format enclosed in the bidding documents. ➤ Where the Bank Guarantee (BG) amount is indicated as %, the same shall be % of the total contract price. ➤ In case the Bidder gets qualified using notes and/or other clauses then the DJU and BG requirement indicated in such notes / clauses shall also apply in addition to above. ➤ The Deeds of Joint Undertaking shall be submitted along with techno-commercial bid, failing which the Bidder shall be disqualified and its bid shall be rejected. ➤ Applicable BGs are in addition to the contract performance security to be furnished by the Bidder. ➤ Applicable BGs shall be furnished in case of award. 		

- 1.7.4 In case the Bidder's associate is supercritical steam turbine manufacturer meeting the requirements of clause 1.1.1(B) except for generator would also qualify provided the Subsidiary Company / JV Company of the supercritical steam turbine generator manufacturer associates and has a Technology Transfer agreement with a Generator Manufacturer who meets the requirements of clause 1.1.1(B) fully in respect of generator.
- The Qualified Generator Manufacturer shall maintain a minimum equity participation of 10 % in the Indian Subsidiary Company / JV Company for a lock-in period of 7 years from the date of incorporation of the Indian Subsidiary Company /JV Company or up to the end of defect liability period of the contract, whichever is later.
- The Qualified Generator Manufacturer shall necessarily be one of the executants of DJU being submitted by the Bidder (for steam turbine generator and auxiliaries) as per clause 1.7.3 above.

Notes for clause 1.0.0

(1) Definitions

- (i) "Qualified Steam Generator Manufacturer" (QSGM) means a manufacturer meeting requirement stipulated at 1.1.1(A).
- (ii) "Qualified Steam Turbine Generator Manufacturer" (QSTGM) means a manufacturer meeting requirement stipulated at 1.1.1(B).
- (iii) Wherever "Indian Manufacturing Company" is indicated, the same shall mean a Subsidiary Company or a Joint Venture Company or an Indian Steam Generator Manufacturing Company or an Indian Steam Turbine Generator Manufacturing Company registered in India under the Companies Act of India or as per the prevailing laws of India.
- (iv) Wherever the term 'coal fired' is appearing above, "coal" shall be deemed to also include bituminous coal/sub-bituminous coal/brown coal/lignite.
- (v) For clause 1.2.1 (c) (ii), QSGM and Technology Owner shall be under the same parent company.

(2) Erection/Commissioning

Where erection / supervision of erection and commissioning / supervision of commissioning has not been in the scope of the Bidder as mentioned in clause 1.1.0 & 1.2.0, it should have acted as an advisor for erection and commissioning of the Steam Generator & auxiliaries/ Steam Turbine & Generator, as the case may be. Necessary documents / certificates from the client, in support of above shall be furnished along with the techno-commercial bid.

(3) Direct / Indirect order

- i) The Bidder / Qualified Steam Generator Manufacturer / Qualified Steam Turbine Generator Manufacturer / Qualified Generator Manufacturer shall also be considered qualified, in case the award for the reference works (steam generator / Turbine and generator) has been received by the Bidder / Qualified Steam Generator Manufacturer / Qualified Steam Turbine Generator Manufacturer / Qualified Generator Manufacturer either directly from owner of plant or any other intermediary organization. A certificate from such owner of plant or the intermediary organization shall be required to be furnished by the Bidder / Qualified Steam Generator Manufacturer / Qualified Steam Turbine Generator Manufacturer / Qualified Generator Manufacturer along with its techno-commercial bid in support of its claim of meeting requirement stipulated at 1.1.1(A), 1.1.1(B), 1.1.4, 1.2.1 and 1.2.4 above as the case may be.
- ii) Certificate from owner of the plant shall also be furnished by the Bidder / Qualified Steam Generator Manufacturer / Qualified Steam Turbine Generator Manufacturer for the successful operation of the steam generator / steam turbine generator set as specified at 1.1.1(A), 1.1.1(B), 1.1.4, 1.2.1 (as applicable) and 1.2.4 above as the case may be along with the techno-commercial bid.
- iii) With regard to Reference work of manufacturing & supply as stipulated at 1.2.1 A) (b), Bidder may furnish Purchase Order/ other documentary proof of manufacturing & supply of components as specified at 1.2.1 A) (b) in place of certificate from owner of plant or any other intermediary organization.

(4) Holding Company as a Qualified Steam Generator Manufacturer and/or Qualified Steam Turbine Generator Manufacturer

- (i) A Holding Company, singularly or collectively along with its Subsidiaries (held either directly or indirectly), meeting the requirements of clause 1.1.1(A) / 1.1.1(B) above, and also owning the technology for supercritical steam generators / supercritical steam turbine generators, shall also be considered as Qualified Steam Generator Manufacturer / Qualified Steam Turbine Generator Manufacturer. However, in such a case either the Indian subsidiary Company created for manufacturing of supercritical steam generator / supercritical steam turbine generators in India shall be a subsidiary of the Holding Company or the Holding Company shall maintain a minimum equity of 26% in the Joint Venture Company, created for manufacturing of supercritical steam generator / supercritical steam turbine generators in India.
- (ii) In such a case, the Holding Company and all such subsidiaries lending strength / experience to the Holding Company shall necessarily be part of the DJU being submitted by the Bidder for successful performance of the contract for the scope related to steam turbine generator and auxiliaries including turbine cycle, regenerative feed heating and pumping system / contract for the scope related to steam generator and auxiliaries (as the case may be) as per the format enclosed in bidding documents.

In case of award, if the Holding Company itself is not the Bidder as a Qualified Steam Generator / Qualified Steam Turbine Generator Manufacturer, the Holding Company and all such entities lending strength / experience to the Holding Company shall each be required to furnish separate on demand bank guarantees for an amount aggregating 0.6% of the total contract price of the Main Plant Package divided equally among them, in addition to the contract performance security to be furnished by the Bidder. This bank guarantee requirement shall supersede bank guarantee requirement stipulated at clause 1.1.0(applicable for associate), 1.2.0, 1.3.0, 1.4.0, 1.5.0 & 1.7.0 for the Qualified Steam Generator / Qualified Steam Turbine Generator Manufacturer.

However, in case the Holding Company itself is the Bidder as a Qualified Steam Generator Manufacturer / Qualified Steam Turbine Generator Manufacturer as per clause 1.1.0, Bidder shall submit its board resolution

stating that in case of any likely change of management control of any of these subsidiaries, the Bidder shall arrange for separate on demand bank guarantees from all such entities lending strength / experience to the Holding Company for fulfillment of requirement of clause 1.1.1(A) / 1.1.1(B) for an amount aggregating 0.6% of the total contract price of the Main Plant Package divided equally among them before the change in management control actually occurs.

- (iii) As an alternative to the requirements of Note 4(ii) above, the Holding Company, as a Qualified Steam Generator Manufacturer / Qualified Steam Turbine Generator Manufacturer, shall necessarily be part of the DJU being submitted by the Bidder for successful performance of the contract for the scope related to steam turbine generator and auxiliaries including turbine cycle, regenerative feed heating and pumping system / contract for the scope related to steam generator and auxiliaries (as the case may be) as per the format enclosed in bidding documents. However, the Bidder shall submit a board resolution of the Holding Company stating that in case of any likely change of management control of any of these subsidiaries, the Holding Company shall arrange for signing of DJU by all such subsidiaries lending strength / experience to the Holding Company for fulfillment of requirement of clause 1.1.1(A) / 1.1.1(B), in line with the requirements of Note 4(ii) above before the change in management control actually occurs.

In case of award, if the Holding Company itself is not the Bidder as a Qualified Steam Generator Manufacturer / Qualified Steam Turbine Generator Manufacturer, the Holding Company shall be required to furnish separate on demand bank guarantee for an amount of 0.6% of the total contract price of the Main Plant Package, in addition to the contract performance security to be furnished by the Bidder. This bank guarantee requirement shall supersede bank guarantee requirement stipulated at clause 1.1.0(applicable for associate), 1.2.0, 1.3.0, 1.4.0, 1.5.0 & 1.7.0 for the Qualified steam generator / Qualified Steam Turbine Generator Manufacturer. In case of any likely change of management control of any of its subsidiaries lending strength/ experience, the Holding Company shall arrange for signing of DJU and bank guarantees from all such subsidiaries lending strength / experience to the Holding Company for fulfillment of requirement of clause 1.1.1(A) / 1.1.1(B), in line with Note 4(ii) above before the change in management control actually occurs, in addition to the bank guarantee already furnished by the Holding Company.

However, in case the Holding Company itself is the Bidder as a Qualified steam generator manufacturer / Qualified Steam Turbine Generator Manufacturer as per clause 1.1.0, and anticipates change of management control of any of its subsidiaries lending strength/ experience for fulfillment of requirement of clause 1.1.1(A) / 1.1.1(B), the Holding Company shall arrange for signing of DJU and bank guarantees from all such subsidiaries lending strength / experience to the Holding Company for fulfillment of requirement of clause 1.1.1(A) / 1.1.1(B), in line with Note 4(ii) above before the change in management control actually occurs, in addition to the bank guarantee already furnished by the Holding Company.

(5) Steam Generator Manufacturer with Technology Tie-up for Variable Pressure Design

In case a supercritical Steam Generator manufacturer meets all the requirements as specified in clause no. 1.1.1(A) above except that the evaporator in the reference steam generator is not designed for variable pressure operation and is designed for constant pressure (Universal Pressure) operation only, in such case, the supercritical Steam Generator manufacturer shall be considered to be qualified, provided that, such supercritical Steam Generator manufacturer has an ongoing license agreement (which covers technology transfer), as on the date of techno-commercial bid opening, with the original Technology Owner (Licensor) for design, manufacture, sell, use,

service of once through variable pressure supercritical steam generator technology (with evaporator suitable for variable pressure operation in sub-critical and supercritical pressure ranges).

- i. The licensor should have experience of providing such variable pressure design steam generator technology for at least one (1) no. of pulverized coal fired supercritical steam generator for a 1500 T/hr or higher capacity using either spiral wound (inclined) or vertical plain or vertical rifled type water wall tubing with the evaporator suitable for variable pressure operation in sub-critical and super-critical pressure ranges and which should be in successful operation for a period of not less than one (1) year prior to the date of techno-commercial bid opening.
- ii. The Bidder shall offer only the type of steam generator i.e. single pass (tower type) or two pass type for which the Bidder is qualified and shall offer only the type of water wall tubing (either spiral wound (inclined) or vertical plain or vertical rifled type) for which his licensor is qualified.
- iii. In such an event, the Bidder shall furnish a Deed of Joint Undertaking executed between the Bidder and the supercritical steam generator manufacturer (as the case may be) and its Technology Owner (Licensor), as per the format enclosed in the Bidding Documents towards the Bidder and the licensor being jointly and severally liable to the Employer for successful performance of the Steam Generator along with an extended warranty of at least one (1) year over and above what is required as per tender documents. The Deed of Joint Undertaking shall be submitted along with techno-commercial bid, failing which the Bidder shall be disqualified and its bid shall be rejected.
- iv. In case of award, Technology Owner (Licensor) will be required to furnish an on demand bank guarantee for an amount of INR 12 Million (Rupees Twelve Million) in addition to the contract performance security to be furnished by the Bidder.

(6) For clause 1.4.0

In case the Indian majority stake holder of the JV Company does not have requisite EPC experience as mentioned at clause 1.4.1 above, it may still be considered qualified if it is wholly owned by a parent company who fully meets the requisite EPC experience provided the parent company maintains its 100% equity in such wholly owned subsidiary for a lock in period of 7 years from the date of incorporation of JV company or up to the end of the defect liability period of the contract whichever is later.

In such a case, the parent company mentioned above shall necessarily be part of DJU being submitted by the Bidder.

In case of award, the parent company shall be required to furnish an on demand bank guarantee for an amount of 0.1% of total contract price of the Main Plant package in addition to the bank guarantee requirement indicated at clause 1.4.2 and 1.4.3.

(7) For clause 1.5.0

Majority stake in JV Company can be held either directly by the Bidder or through its wholly owned subsidiary provided the Bidder maintains its 100% equity in such wholly owned subsidiary for a lock in period of 7 years from the date of incorporation of JV company or up to the end of the defect liability period of the contract whichever is later.

In case majority stake in the JV Company is held by wholly owned subsidiary of the Bidder then such wholly owned subsidiary shall necessarily be part of DJU being submitted by the Bidder.

In case of award the wholly owned subsidiary as mentioned above shall be required to furnish an on demand bank guarantee for an amount of 0.1% of total contract price of Main Plant package in addition to the bank guarantee requirement at clause 1.5.2 and 1.5.3.

(8) Not Used

(9) Equity lock in period

Wherever equity lock in period requirement or subsidiary status requirement is indicated, the Bidder would be required to furnish along with his techno-commercial bid, a Letter of Undertaking from the promoter(s) supported by Board Resolution as per the format enclosed in the bid documents, for maintaining required minimum equity for the lock in period mentioned / maintaining the subsidiary status.

Following is also applicable for clauses 1.3.0, 1.4.0 and 1.5.0:

In case the Indian Subsidiary (ies) /JV Company (ies) (formed for manufacturing Super critical Steam Generator and/or supercritical Steam Turbine Generator sets) meets the criteria specified under Note No. 13 of "Notes for clause 1.0.0" and has also successfully completed Phased Manufacturing Program (PMP) as per clause 3.0.0, then the bidder would have the option of submitting "Letter of Undertaking" for support from the QSGM and/or QSTGM and/or QGM, as applicable, along with the techno commercial bid as per the format enclosed in the bidding documents instead of the undertakings / documents for maintaining the minimum equity for the lock-in period mentioned / maintaining the subsidiary status, wherever indicated, in respect of QSGM and/or QSTGM and/or QGM, as applicable.

Such "Letter of Undertaking" can also be submitted in scanned soft copy with or without Notarization, provided bidder gives an undertaking as per the format enclosed with the Bidding documents, along with the techno commercial bid that it shall submit the hard copy of said "Letter of Undertaking" in original to the Employer as per the format enclosed with the Bidding documents, at the earliest but not later than fifteen (15) days, maximum extended up to thirty (30) days with the written consent from the Employer from the date of opening of the price bid, failing which the Bid shall be liable for rejection and Bid Security may be forfeited by the Employer.

(10) For Clause 1.2.0

Not Used

(11) For clause 1.1.0,1.2.0, 1.3.0, 1.4.0, 1.5.0, 1.6.0, 1.7.0

"for the scope related to Steam Turbine Generator and Auxiliaries including turbine cycle, regenerative feed heating and pumping system" indicated at clause 1.1.3,1.2.3, 1.3.2, 1.4.2, 1.5.2, 1.6.2, 1.7.3 shall mean Steam Turbine Generator and their Auxiliaries including turbine cycle, regenerative feed heating and pumping system as included in the DJU formats included in the bidding documents.

"for the scope related to Steam Generator and Auxiliaries" indicated at clause 1.1.3, 1.2.3, 1.3.2, 1.4.2, 1.5.2, 1.6.2, 1.7.3 shall mean Steam Generator and Auxiliaries as included in the DJU formats included in the bidding documents.

(12) For clause 1.6.0

Sourcing of the Steam generators or Steam turbine generators, either from a qualified associate or from the bidder itself meeting the requirements indicated in the applicable clauses of relevant route is acceptable.

(13) For clauses 1.1.0, 1.3.0, 1.4.0, 1.5.0 and 1.7.0

Bidders participating through any of the Routes 1.1.0 or 1.3.0 or 1.4.0 or 1.5.0 or 1.7.0 shall not be required to furnish deed of joint undertaking (DJU) and associated BG for the Steam Generator and /or Steam Turbine Generator (as the case may be), in case they meet the following criteria:

Eight (8) Nos supercritical Steam Generators and/or supercritical Steam Turbine Generators (as the case may be) manufactured/supplied in India by the Indian Subsidiary/JV Company / Indian manufacturing company should be in commercial operation (achieved COD) out of which four (4) such Steam Generators and/or Steam Turbine Generators (as the case may be) should have been in commercial operation for at least one year and Performance Guarantee (PG) Test should have been successfully completed in any two (2) such Steam Generators and /or Steam Turbine Generators (as the case may be) prior to the date of techno-commercial bid opening.

In case any problem related to supercritical Steam Generators and/or supercritical Steam Turbine Generators (as the case may be) & Auxiliaries is encountered during execution of the contract, bidder shall resolve the same within a reasonable time (in the opinion of the owner) by itself/through its collaborator/through firm having competency to resolve such issues. If the problem is not resolved within a reasonable period of time in the opinion of the owner, Owner shall have the option to approach directly to the collaborator/licensor/technology Provider or any other firm to resolve the issue. In such a case the financial expenditure(s) incurred by Owner for resolution of such issues will be to bidder's account. Accordingly, bidder shall be required to submit a letter along with the techno commercial bid valid up to the end of defect liability period of the contract, as per the format enclosed in the bidding documents.

(14) For clauses 1.4.0 and 1.5.0

The value of executed works shall be given a simple weightage to bring them at current price level by adding 5% for each year on prorata basis after the end date of completion/execution of the reference work, till the last day of month previous to one in which NIT has been invited.

The specified value of executed works (i.e. INR 10000 million or more and INR 4000 million or more) is excluding any taxes and duties.

(15) The word “executed” in clauses 1.4.0,1.5.0 means:

- a) In case of Project(s), the project(s) should have been commissioned, even if the contract has been started earlier and / or is not completed / closed.
- b) In case of Contract(s), the scope of work under the contract(s) should have been completed, even if the contract has been started earlier and / or is not closed.

2.0.0 Financial Criteria:

2.1.0 Financial Criteria for the Bidder

- 2.1.1 The average annual turnover of the Bidder, in the preceding three (3) financial years as on the date of techno-commercial bid opening, should not be less than **₹ 17619 Million (Rupees Seventeen Thousand Six Hundred and Nineteen Million only) or in equivalent foreign currency.**

In case a Bidder does not satisfy the average annual turnover criteria, stipulated above on its own, its Holding Company would be required to meet the stipulated turnover requirements as 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 Techno-Commercial bid, a Letter of Undertaking from the Holding Company, supported by the Holding Company's Board Resolution, as per the format enclosed in the bid documents, pledging unconditional and irrevocable financial support for the execution of the Contract by the Bidder in case of award.

2.1.2 Bidder should have Positive Net Worth as on the last day of the preceding financial year.

2.1.3 In case the Bidder is not able to furnish its audited financial statements on standalone entity basis, the unaudited unconsolidated financial statements of the Bidder can be considered acceptable provided the Bidder furnishes the following further documents on substantiation of its qualification:

- (i) Copies of the unaudited unconsolidated financial statements of the Bidder along with copies of the audited consolidated financial statements of its Holding Company.
- (ii) A Certificate from the CEO/CFO of the Holding Company, as per the format enclosed in the bidding 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 financial year as on the date of Techno Commercial bid opening are not available, the financial results certified by a practicing Chartered Accountant shall be considered acceptable. In case, Bidder is not able to submit the Certificate from a practicing Chartered Accountant certifying its financial parameters, the audited results of three consecutive financial years preceding the last financial year shall be considered for evaluating the financial parameters. Further, a Certificate would be required from the CEO/CFO as per the format enclosed in the bidding documents stating that the Financial results of the Company are under audit as on the date of Techno-commercial bid opening and the Certificate from the practicing Chartered Accountant certifying the financial parameters is not available.

2.2.0 Financial Criteria for the Collaborator(s) / Associate(s)

2.2.1 The average annual turnover of the **Collaborator(s) / Associate(s)**, in the preceding three (3) financial years as on the date of techno-commercial bid opening, should not be less than the following for different Collaborator(s) / associate(s) as applicable.

Collaborator(s) / Associate(s)	Applicable clauses	Required annual turnover in Million INR or in equivalent foreign currency
QSGM	1.1.2(c), 1.2.1 A), 1.3.1(a) , 1.3.1(b), 1.4.1(a) , 1.4.1(b), 1.5.1(a) , 1.5.1(b), 1.6.2 (a)(i)/(ii)/(iii)/(iv) , 1.7.2	INR 4376 Million (Rupees Four Thousand Three Hundred and Seventy Six Million Only)

QSTGM	1.1.2(c), 1.2.1 B), 1.3.1(a) , 1.3.1(b), 1.4.1(a) , 1.4.1(b), 1.5.1(a) , 1.5.1(b), 1.6.2(a)(i)/(ii)/(iii)/(iv) , 1.7.2	INR 2416 Million (Rupees Two Thousand Four Hundred and Sixteen Million Only)
Indian Steam Generator and Steam Turbine generator manufacturer (if steam generator is being sourced as per clause 1.6.2(a)(ii))	1.6.2(a)(ii)	INR 4376 Million (Rupees Four Thousand Three Hundred and Seventy Six Million Only)
Indian Steam Generator and Steam Turbine generator manufacturer (if steam turbine generator is being sourced as per clause 1.6.2(a)(ii))	1.6.2(a)(ii)	INR 2416 Million (Rupees Two Thousand Four Hundred and Sixteen Million Only)
Subsidiary Company / JV Company of QSGM	1.1.2(c), 1.3.1(b), 1.4.1(b), 1.5.1(b), 1.6.2(a) (i)/(iii)/(iv) , 1.7.2	INR 4376 Million (Rupees Four Thousand Three Hundred and Seventy Six Million Only)
Subsidiary Company / JV Company of QSTGM	1.1.2(c), 1.3.1(b), 1.4.1(b), 1.5.1(b), 1.6.2(a) (i)/(iii)/(iv) , 1.7.2	INR 2416 Million (Rupees Two Thousand Four Hundred and Sixteen Million Only)
Separate Generator Manufacturer	1.1.4, 1.2.4, 1.3.3, 1.4.3, 1.5.3, 1.6.4 , 1.7.4	INR 881 Million (Rupees Eight Hundred and Eighty One Million Only)
Holding Company as QSGM	Notes for clause 1.0.0 (4)	INR 4376 Million (Rupees Four Thousand Three Hundred and Seventy Six Million Only)
Holding Company as QSTGM	Notes for clause 1.0.0 (4)	INR 2416 Million (Rupees Two Thousand Four Hundred and Sixteen Million Only)
Technology Owner (Licensor to QSGM)	Notes for clause 1.0.0 (5)	INR 881 Million (Rupees Eight Hundred and Eighty One Million Only)

In case the Collaborator/Associate does not satisfy the average annual turnover criteria above on its own, its Holding Company would be required to meet the stipulated turnover requirements at Cl. 2.2.1 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 Collaborator/Associate would be required to furnish along with bidder's Techno-Commercial bid, a Letter of Undertaking from the Holding Company, supported by Board Resolution of the Holding Company, as per the format enclosed with the bidding

documents, pledging unconditional and irrevocable financial support to the Collaborator/Associate to honour the terms and conditions of the Deed of Joint Undertaking in case of award of the Contract to the Bidder with whom Collaborator/Associate is associated.

2.2.2 Each Collaborator/Associate should have Positive Net Worth as on the last day of the preceding financial year.

2.2.3 In case the Collaborator(s) / Associate(s) is not able to furnish its audited financial statements on stand-alone entity basis, the unaudited unconsolidated financial statements of the Collaborator(s) / Associate(s) can be considered acceptable provided the Collaborator(s) / Associate(s) furnishes the following further documents on substantiation of its qualification:

- (i) Copies of the unaudited unconsolidated financial statements of the Collaborator(s) / Associate(s) along with copies of the audited consolidated financial statements of the Holding Company of Collaborator(s) / Associate(s).
- (ii) A Certificate from the CEO/CFO of the Holding Company, as per the format enclosed with the bidding documents, stating that the unaudited unconsolidated financial statements form part of the consolidated financial statements of the Holding Company of Collaborator/Associate.

In cases where audited results for the last financial year as on the date of Techno Commercial bid opening are not available, the financial results certified by a practicing Chartered Accountant shall be considered acceptable. In case, Collaborator/Associate is not able to submit the Certificate from a practicing Chartered Accountant certifying its financial parameters, the audited results of three consecutive financial years preceding the last financial year shall be considered for evaluating the financial parameters. Further, a Certificate would be required from the CEO/CFO as per the format enclosed in the bidding documents stating that the Financial results of the Company are under audit as on the date of Techno-commercial bid opening and the Certificate from the practicing Chartered Accountant certifying the financial parameters is not available.

NOTES for Clause 2.0.0:

- (i) Net worth means the sum total of the paid-up share capital and free reserves. Free reserve means all reserves credited out of the profits and share premium account but does not include reserves credited out of the revaluation of the assets, write back of depreciation provision and amalgamation. Further any debit balance of Profit and Loss account and miscellaneous expenses to the extent not adjusted or written off, if any, shall be reduced from reserves and surplus.
- (ii) Other income shall not be considered for arriving at annual turnover.
- (iii) "Holding Company" and "Subsidiary Company" shall have the meaning ascribed to them as per Companies Act of India.
- (iv) For annual Turnover indicated in foreign currency, the exchange rate as on seven (7) days prior to the date of Techno-Commercial bid opening shall be used.
- (v) In case the bidder / collaborator(s) / associate(s) participating under Clause 1.3.0 or 1.4.0, do not meet the turnover requirement, then, the Turnover of any of the Promoters individually or all the promoters (in a combined manner) (each having Equity Stake more than 25%) of the Subsidiary Company / JV Company would be considered. Each such promoter of the Subsidiary Company / JV Company shall have to meet the Net Worth criteria individually as per clause 2.1.2 and/or 2.2.2. In such an event the Bidder would be required to furnish along with its techno-commercial

bid, a Letter of Undertaking from such promoter(s), supported by Board Resolution as per the format enclosed in the bidding documents, pledging unconditional and irrevocable financial support for execution of the Contract by the Bidder in case of award.

3.0.0 Phased Manufacturing Program and Transfer of Technology

- 3.1 The Bidder & its associate should have absorbed the Supercritical Technology or should be having valid ongoing Technology License Agreement including license to manufacture for Steam Turbine Generators / Steam Generator (as the case may be) from QSTGM/QSGM meeting the requirements specified at clause 1.1.1(B)/ 1.1.1(A) respectively. Technology transfer from the Technology Owner who is under the same parent company as that of QSTGM/QSGM shall also be acceptable.

Further, Bidder and its associate should have established manufacturing facility in India and meeting following minimum requirements for Steam Generators/ Steam Turbine Generators (as the case may be).

It has manufactured and supplied components for supercritical Steam Generator / supercritical Steam Turbine Generator (as the case may be) as indicated in the PMP guideline of GOI including any exception issued by GOI regarding PMP guidelines, from its Indian manufacturing facility.

- 3.2 If any bidder and its associate is not meeting requirements of 3.1 then it shall be required to furnish an undertaking (for their respective equipment) with regard to above as per format enclosed with the bidding documents. In case of award the Bidder shall submit an on demand bank guarantee of INR 650 Millions per project for Steam Turbine Generators and INR 900 Million per project for Steam Generators as security for any default against meeting the specified Phased Manufacturing Program.

Major part (minimum 75%) of the land required for setting up manufacturing facility in India should be in possession with clear title either in the name of the "Indian Manufacturing Company(ies)" or its Indian promoter (but pledged / leased to the Subsidiary / JV company) prior to submission of techno-commercial bid. In case, the Bidder has existing manufacturing facility in India, he should have in possession major part (minimum 75%) of the additional land required with clear title for augmenting his already existing manufacturing facility. "Clear title" shall be deemed to also include land acquired on long term lease basis for minimum 30 years with a provision for further extension.

Notes for clause 3.0.0:

- (1) Among the bidder and its associate(s) who has already given commitments for PMP and submitted bank guarantees for security for default against specified PMP for Steam Turbine Generators / Steam Generator to any Central / State sector power generating Company for supercritical projects or if such bank guarantees have already been released shall not be required to furnish further bank guarantees for security for default against specified PMP.
- (2) In case the Indian Subsidiary Company/JV Company/Indian manufacturing company have already completed PMP, for supercritical boiler/supercritical steam turbine (as the case may be) then such Indian Subsidiary Company/JV Company/Indian manufacturing company need not submit the undertakings/documents for PMP again for the respective equipment. However, certificate in support of completion of such PMP duly issued by the competent authority **or proof of release of the bank guarantee by any Central / State power generating company** shall be submitted along with the techno-commercial bid.
- (3) Further if any recommendation/report with respect to PMP is issued by any statutory organization, same shall also be taken into cognizance and such Indian Subsidiary Company/JV Company/Indian manufacturing company need not submit the undertakings/documents for PMP for the respective equipment.

4.0.0 Project Management Experience

4.1.0 (a) The Bidder should have executed in the last 10 years from the last day of month previous to one in which NIT has been invited, industrial projects on EPC basis (with or without civil works) in the area of power, steel, oil & gas, petro-chemical, fertilizer, flue gas desulphurization, cement and / or any other process industry with the total value of such projects being INR 10000 million or more. At least one of such projects should have a contract value of INR 4000 million or more. These projects shall be in successful operation for a period of not less than one (1) year prior to the date of Techno-Commercial bid opening.

OR

4.1.0(b) The Bidder should have executed at least one (1) no of pulverized coal / lignite fired reheat type of unit of at least 200 MW which is in successful operation for a period of not less than one (1) year prior to the date of techno-commercial bid opening. The scope of work of such reference plant should have necessarily included engineering management, procurement management, construction management, and commissioning/ supervision of commissioning of steam generator and steam turbine generator sets with their associated auxiliaries, Electro static precipitators/ bag filters for carrying out project management. Otherwise the Bidder shall associate with a Project Management Organization who meets the above requirement for project management.

If the project management of the Main Plant package is to be carried out by a Project Management Organization other than the Bidder itself then, the Bidder shall furnish undertaking jointly executed by it and Project Management Organization in which all the executants of DJU shall be jointly and severally liable to the Employer to perform successfully all the project management activities included in his scope as per format enclosed in the bidding documents. The Deed of Joint Undertaking shall be submitted along with Techno-Commercial bid, failing which the Bidder shall be disqualified and its bid shall be rejected. In case of award, the Project Management Organization will be required to furnish an on demand bank guarantee for INR 20 Million (Rupees twenty Million) per project in addition to the contract performance security by the Bidder.

Note:

(1) The value of executed works shall be given a simple weightage to bring them at current price level by adding 5% for each year on prorata basis after the end date of completion/execution of the reference work, till the last day of month previous to one in which NIT has been invited.

The specified value of executed works (i.e. INR 10000 million or more and INR 4000 million or more) is excluding any taxes and duties.

(2) The word “executed” in clauses 4.0.0 means:

a) In case of Project(s), the project(s) should have been commissioned, even if the contract has been started earlier and / or is not completed / closed.

b) In case of Contract(s), the scope of work under the contract(s) should have been completed, even if the contract has been started earlier and / or is not closed.

5.0.0 Engineering Experience

The Bidder Should carry out Engineering of the complete Main Plant package either by itself or through an Architect Engineering firm, provided that bidder or Architect Engineering firm meets the requirements indicated at 5.1.0 or 5.2.0 or 5.3.0 below:

5.1.0(a) (i) The Bidder should have carried out Engineering of at least one (1) no. of pulverized coal/ lignite fired reheat type supercritical unit, with minimum unit rating of 500 MW, consisting of steam generator and steam turbine generator sets along with their auxiliaries including mills, fans, Air pre-heaters, steam Generator start up system, regenerative heating and pumping system, Power cycle piping and flash tanks/ flash boxes, which is in successful operation for a period of not less than one (1) year prior to the date of Techno-Commercial bid opening.

And

5.1.0 (a) (ii) The Bidder should have carried out Engineering of at least one (1) no. of pulverized coal / lignite fired reheat type unit, with minimum unit rating of 200 MW consisting of steam generator and steam turbine generator sets along with their auxiliaries including mills, fans, Air pre-heaters, regenerative heating and pumping system , Power cycle piping and flash tanks/ flash boxes, Coal handling plant, Ash handling plant, Condenser cooling water system, Switchyard, which is in successful operation for a period of not less than one (1) year prior to the date of Techno-Commercial bid opening.

5.1.0 (b) If the Bidder does not meet the requirement indicated at 5.1.0 (a)(i) but meets the requirement indicated at 5.1.0 (a)(ii) then the Bidder shall get the engineering documents related to Thermal cycle, Power Cycle piping and flash tanks/ flash boxes, Steam Generator start up system, Sizing of Main Plant equipments, interface between SG and TG, unit start up and control philosophy vetted by an Architect Engineering Firm who meets the requirement indicated at 5.1.0 (a) (i). In such a case the Bidder shall furnish an Undertaking Jointly executed by it and the architect engineering firm, meeting the requirement indicated at 5.1.0(a) (i) in which all the executants of DJU shall be jointly and severally liable to the Employer to perform successfully all the engineering activities included in the scope of the architect engineering firm as per format enclosed in the bidding documents. The Deed of Joint Undertaking shall be submitted along with techno-commercial bid, failing which the Bidder shall be disqualified and its bid shall be rejected. In case of award, the architect engineering firm will be required to furnish an on demand bank guarantee for INR 1.5 Million (Rupees One and Half Million) per project in addition to the contract performance security to be furnished by the Bidder.

5.2.0(a)(i) The steam generator and/or steam turbine generator manufacturer bidding under route 1.1.0 or 1.2.0 should be engaged in or should have completed Engineering of at least one (1) no. of pulverized coal/ lignite fired reheat type supercritical unit, with minimum unit rating of 500 MW, consisting of steam generator and steam turbine generator sets along with their auxiliaries including mills, fans, Air pre-heaters, steam Generator start up system, regenerative heating and pumping system, Power cycle piping and flash tanks/ flash boxes (in a single contract or in two separate contracts in a single unit), which is under execution prior to the date of Techno-Commercial bid opening.

And

5.2.0(a)(ii) The steam generator and/or steam turbine generator manufacturer bidding under route 1.1.0 or 1.2.0 should have carried out Engineering of at least one (1) no. of pulverized coal / lignite fired reheat type unit, with minimum unit rating of 500 MW consisting of steam generator and steam turbine generator sets along with their auxiliaries including mills, fans, Air pre-heaters, regenerative heating and pumping system, Power cycle piping and flash tanks/ flash boxes, Coal handling plant, Ash handling plant, Condenser cooling water system, Switchyard, which is in successful operation for a period of not less than one (1) year prior to the date of Techno-Commercial bid opening.

5.3.0 If the Bidder does not meet either the requirements indicated at 5.1.0 (a)(i) & (ii) or the requirements indicated at 5.2.0(a)(i) & (ii) then, the Bidder shall get the complete engineering of the Main Plant package done by an Architect Engineering firm who meets the requirements indicated at 5.1.0 (a) (i) & (ii). In such a case the Bidder shall furnish undertaking jointly executed by it and the Architect Engineering Firm in which all the executants of DJU shall be

jointly and severally liable to the Employer to perform successfully all the engineering activities included in its scope as per format enclosed in the bidding documents. The Deed of Joint Undertaking shall be submitted along with techno-commercial bid, failing which the Bidder shall be disqualified and its bid shall be rejected. In case of award, architect engineering firm will be required to furnish an on demand bank guarantee for INR 1.5 Million per project (Rupees One and Half Million) in addition to the contract performance security to be furnished by the Bidder.

Note

- 1.0 The term 'Engineering' in clause 5.0.0, shall mean (a) Basic engineering for integration and interface between SG & TG. (b) Pre award engineering for system associated with Main Plant. (c) Post award engineering covering review of thermal cycle of the power plant, review and interface engineering for overall integration of various power plant equipment / packages including review of major design documentation such as design/ sizing calculations, layout, plant start up and control philosophy and schematic drawings and other documentation related to Mechanical, Civil, Electrical and C & I design.
- 2.0 For compliance of requirement stipulated in clause 5.1.0 (a) (i) & (ii) or 5.2.0(a) (i) & (ii) above, Bidder/ Architectural engineering firm can either use two different reference power plants or single reference power plant.
- 3.0 In case bidder does not meet the requirements stipulated at clause 5.1.0 or 5.2.0 above and meet the requirements of clause 5.3.0, it can propose more than one Architect Engineering Firm(s) as their associate to carry out Engineering of Main Plant package as specified at clause 5.3.0 above. However, in such a case bidder shall give an undertaking as per the format enclosed in bidding documents that in case of award, bidder shall finalize number of qualified Architect Engineering Firm(s) as specified at clause 5.3.0 among the proposed Architect Engineering Firm(s) as included in its bid.