

	PROJECT: 3x800 MW PATRATU TPS PRE-QUALIFICATION REQUIREMENT (PQR) GYPSUM DEWATERING SYSTEM	DOC NO.: PE-PQ-434-571-A001	
		DATE	30.12.2021
		REV NO.	00

1.0	The bidder shall be manufacturer who has previously designed (either by itself or under collaboration/ licensing agreement), manufactured / got manufactured the Vacuum Belt Filter for dewatering process in a Wet Limestone based Flue Gas Desulphurisation (FGD) application in Coal fired power plant or in any other process application, of the minimum capacity output of 65 Tons per hour (wet cake) such that the system should have been in successful operation in at least one (1) plant for a period not less than one (1) year as on 07.09.2018.
2.0	A JV / Subsidiary Company formed for manufacturing and supply of equipment as listed at Clause no. 1.0 above in India can also manufacture such equipments, provided it fulfils the requirement <i>placed at the Annexure-1</i> pertaining to the Provenness criteria for vacuum belt filter and associated equipments for the FGD System. Such bidder shall submit Deed of Joint Undertaking (DJU) as specified. Further, a duly filled-in format (Attachment-3K) shall be submitted which is placed at Annexure-2, in either case.
3.0	The bidder shall submit following supporting documents meeting the above-mentioned pre-qualification requirement: Copy of minimum one (1) performance certificate (in English) from end user along with copy of related Purchase Order (PO) or Letter of intent (LOI) or Letter of Award (LOA) or Work Order (WO) in support of PQR above.
4.0	Bidder shall submit design documents to substantiate technical parameters specified in PQR, if the same is not mentioned in performance certificate/purchase order.
5.0	Bidder shall offer and supply only the type of the above equipment(s) for which it, itself or the manufacturer / Collaborator(s) / Licensor(s) proposed by the Bidder for the above equipment(s) is qualified.
6.0	Bidder to submit all supporting documents in English. If documents submitted by bidder are in language other than English, a translation of its pertinent passages in English language in which case, for purposes of interpretation of the bid, the translation shall govern. The English Translation of the documents shall be carried out by professional translators and the translator shall certify that he is proficient in both languages in order to translate the document and that the translation is complete and accurate. Further, translation shall be authenticated by the Indian Consulate located in the Country where the documents have been issued or the Embassy of that Country in India.
7.0	Notwithstanding anything stated above, BHEL/PVUNL reserves the right to assess the capabilities and capacity of the bidder to perform the contract, should the circumstances warrant such assessment in the overall interest of BHEL/PVUNL.
8.0	After satisfactory fulfilment of all the above criteria/ requirement, offer shall be considered for further evaluation as per NIT and all the other terms of the tender.

Prepared By

Reviewed By

Approved By

1. A JV / Subsidiary Company formed for manufacturing and supply of equipment(s) as listed at Clause no. 2.0 of document no. PE-PQ-434-571-A001, in India can also manufacture such equipments, provided that it has a valid collaboration or licensing agreement for design, engineering, manufacturing of such equipment(s) in India with a qualified equipment manufacturer (or the technology provider of the qualified equipment manufacturer) for the respective equipment(s) who meets the requirements stipulated at the said clause. However, in this case, the proposed JV / Subsidiary Company before resorting to design, engineering, manufacturing of such proven equipment(s) listed at said clause by himself should have sourced / shall source such proven equipment(s) for at least the first 800 MW unit completely from such qualified manufacturer. For subsequent units before taking up the manufacturing of such equipment(s), the bidder/ his sub-vendor(s) must create /have created manufacturing facilities at his works as per collaborator's/licenser's design, manufacturing and quality control system for such equipment(s).
2. Further, in such a case, such qualified equipment manufacturers should have, directly or indirectly through its holding company/ subsidiary company, at least 26% equity participation in the Indian Joint Venture Company/ Subsidiary Company, which shall be maintained for a lock-in period of seven (7) years from the date of incorporation of such Joint Venture/ Subsidiary or up to the end of defect liability period of the contract, whichever is later. In addition, the Bidder along with the Indian Joint Venture Company/ Subsidiary Company, qualified equipment manufacturers and its holding/ subsidiary Company, as applicable, shall furnish DJU in which executant of the DJU shall be jointly and severally liable for the successful performance of the equipment as per the format enclosed in the bidding document. The DJU shall be submitted prior to the placement of order. In case of award, the bidder shall be required to furnish an on demand bank guarantee for INR 1.5 Million (Indian Rupees One and Half Million only) for each equipment for the purpose of DJU.
3. In such case(s), the bidder shall furnish the following details of JV/Subsidiary company:
 - a. Copy of document of incorporation of JV/Subsidiary company in India
 - b. Copy of valid ongoing collaboration and technology transfer agreement for design, engineering, manufacturing, supply of such equipment in India with the collaborator who meets the requirement stipulated at clause 1.0 of document no. PE-PQ-434-571-A101.
 - c. Copy of document of at least 26% equity participation of qualified equipment manufacturer in the Indian JV company/subsidiary company directly or indirectly through its holding/Subsidiary company, which shall be maintained for a lock-in period of seven (7) years from the date of incorporation of such JV/Subsidiary or up to the end of defect liability period, of the contract whichever is later.
 - d. Further, the details of collaborator or technology provider of the qualified equipment manufacturer who meets the requirement stipulated at clause 1.0 of document no. PE-PQ-434-571-A101 shall be filled by the bidder in the format placed at Annexure-2.
4. Before taking up the manufacturing of such equipment(s) as per clause 2 above, the Bidder must create (or should have created) manufacturing and testing facilities at its works as per Collaborator / licensor's design, manufacturing and quality control system for such equipments duly certified by the Collaborator / licensor. Further, the Collaborator / Licensor shall provide (or should have provided) all design, design calculation, manufacturing drawings and must provide (or should have provided) technical and quality surveillance assistance and supervision during manufacturing, erection, testing, commissioning of equipments.
5. Bidder shall offer and supply only the type of the above equipment(s) for which it, itself or the manufacturer / Collaborator(s) / Licensor(s) proposed by the Bidder for the above equipment(s) is qualified.
6. BHEL/PVUNL reserves the right to fully satisfy himself regarding capability and capacity of Bidder / its sub-vendor(s) and the proposed arrangement and may prescribe additional requirement before allowing manufacture of the equipment listed above for this contract.

Note: Bidder to furnish the requirement credentials/DJU, as applicable in the format, as attachment-3K enclosed.

Prepared By

Reviewed By

Approved By

Attachment -3K Format (To be submitted by bidder as specified in the Technical PQR Document No. PE-PQ-434-571-A001)

Common Seal of the Company

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Note : Power of Attorney of the person signing on behalf of Collaborator/Technology Licensor, Contractor and *his sub-vendor is to be furnished by Contractor.

* Bidder/Contractor shall strike out, whichever is not applicable.

** Copy of priced purchase order for the equipment shall be furnished by Bidder.

CRITICAL EQUIPMENT, AUXILIARIES, SYSTEMS & BOUGHT OUT ITEMS FOR FLUE GAS DESULPHURISATION (FGD) SYSTEM

Summary of Critical Equipment indicated under clause 4.26, sub-section-IA, Part-A of Section-VI.

Equipment Name	Sub-Vendor Name	Collaborator's Name, if applicable	Seeking Qualification as per clause..... Sub-Section-I, Part-A of Section-VI
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*Slurry Recirculation Pumps			*4.26.1 /*4.26.2 /*4.26.6
Oxidation Blowers			*4.26.1 /*4.26.2 /*4.26.3

Signature of authorized signatory.....

619025/2021

Annexure-2 :

Attachment -3K Format (To be submitted by bidder as specified in the Technical PQR Document No. PE-PQ-434-571-A001)

Wet limestone Grinding mills	*4.26.1 /*4.26.2 /*4.26.4
Slurry Pumps	*4.26.1/*4.26.2
Agitators	*4.26.1 /*4.26.2 /*4.26.5
Vacuum Belt filters	*4.26.1 /*4.26.2

Note : *Strike-off whichever is not applicable.

1. If qualification sought as per clause 4.26.1 then the details of the sub vendor (manufacturer) shall be filled by the bidder in the format A to F.
2. If the qualification sought as per the clause 4.26.2, then the details of JV/Subsidiary Company formed for manufacturing of such equipments in India shall be furnished individually for each equipment by the bidder such as,
 - i) Copy of document of incorporation of JV/Subsidiary company in India
 - ii) Copy of collaboration or valid licensing agreement for design, engineering, manufacturing, supply of such equipment in India with the collaborator or technology licensor who meets the requirement stipulated at 3.1.
 - iii) Copy of document of at least 26% equity participation of qualified equipment manufacturer in the Indian JV company/subsidiary company directly or indirectly through its holding company /Subsidiary company, which shall be maintained for a lock -in period of seven (7) years from the date of incorporation of such JV/subsidiary or up to the end of defect liability period of the contract which ever is later.

Further, the details of collaborator or technology licensor or technology provider of the qualified equipment manufacturer who meets the requirement stipulated at 4.26.1, sub-section-IA, Part-A of Section-VI shall be filled by the Bidder in the format A to F (format given at 1.00.00). In addition to that, the sub vendor along with the Indian JV company/subsidiary company, qualified equipment manufacturer and its holding company/subsidiary company as applicable shall furnish the DJU.

*** strike out whichever is not applicable.**

- 1.00.00 (Applicable for Bidder/his sub vendors seeking qualification as per clause no. 4.26.1, Sub section-IA, Part-A of Section-VI. Bidder shall furnish the required data only for those equipments / auxiliaries which are proposed to be sourced under this route.)

We, hereby furnish the data on proveness criteria for critical equipment, auxiliaries, systems and Bought Out Items such as Slurry Recirculation Pumps, Oxidation Blowers, Wet Limestone Grinding Mills, Slurry Pumps, & Agitators which have been

Signature of authorized signatory.....

Attachment -3K Format (To be submitted by bidder as specified in the Technical PQR Document No. PE-PQ-434-571-A001

designed (either by self manufacturer or under Collaboration/Licencing Agreement), *manufactured/ *got manufactured and supplied by us /Manufacturer (or manufactured/ got manufactured & supplied by our proposed sub-vendors) and these are in successful operation in at least one (1) plant for a period not less than one year reckoned as on the date of consideration for approval but not later than six months to award date of contract to the Main bidder. The details of type and minimum equipment rating of such equipment are given below:

- A. Slurry Recirculation Pumps:** We declare that, we/our Sub-Vendor, have manufactured and supplied at least one (1) number of Slurry Recirculation Pumps of minimum 80% of the flow & 100% of the head of the offered Slurry Recirculation Pump, Centrifugal type working in a Wet Limestone based FGD application in Coal fired power plant and which has been in successful operation for minimum one (1) year reckoned as on the date of consideration for approval but not later than six months to award date of contract to the Main bidder, as per the details furnished below:

Sl. No.	Description	Reference Work
1.	Name of the reference plant & location:	
2.	Client name and his address:	
3.	No. of units and capacity in MW of unit:	
4.	Whether operating in a Wet Limestone based FGD application in Coal fired power plant	- *Yes/*No
5.	Name of equipment manufacturer & address:	
6.	Date of commission of the equipments:	
7.	Model no. of the equipment:	
8.	Brief Technical particulars of the equipments:	

Sl. No.	Description	Reference Work
9.	Flow-m ³ /h
10.	Head- meters of liquid column
11.	Whether the equipment(s) are in successful operation in atleast one (01) plant for a period not less than one(01) year reckoned as on the date of consideration for approval but not	

Signature of authorized signatory.....

Annexure-2 :

Attachment -3K Format (To be submitted by bidder as specified in the Technical PQR Document No. PE-PQ-434-571-A001

Annexure.....to
Attachment-3K

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* **Strike off whichever is not applicable.**

- F. Vacuum Belt filters:** We declare that, we/our Sub-Vendor, have manufactured and supplied at least one (1) number of Vacuum Belt filter of minimum 80% of the offered Vacuum Belt filter capacity. Belt type, working in Wet Limestone based FGD application in Coal fired power plant[#] and which has been in successful operation for minimum one(1) year reckoned as on the date of consideration for approval but not later than six months to award date of contract to the Main bidder, as per the details furnished below:

Or in any other process application

Sl. No.	Description	Reference Work
1.	Name of the reference plant & location:	--
2.	Client name and his address:	
3.	No. of units and capacity in MW of unit:	
4.	Whether power plant is coal fired	-*Yes/*No
5.	Whether operating in a Wet Limestone based FGD application in coal fired power plant	-*Yes/*No
6.	Name of equipment manufacturer & address:	
7.	Date of commission of the equipment:	
8.	Model no. of the equipment:	
9.	Brief Technical particulars of the equipment:	
10.	Capacity-TPH
11.	Whether the equipment(s) are in successful operation in atleast one(01) plant for a period not less than one (01) year reckoned as on the date of consideration for approval but not later than six months to award date of contract to the Main bidder	-*Yes/*No
12.	Flue gas Desulphurization system details:	*Technical extract/ *paper letter/ *email/ *Drawing from user or *contract

Signature of authorized signatory.....

Attachment -3K Format (To be submitted by bidder as specified in the Technical PQR Document No. PE-PQ-434-571-A001)

document or *scheme or
*any document in public
domain enclosed at
annexure.....to
Attachment-3K

13. Scope of Work:

*Letter of Award or
*Contract or *P.O
enclosed at
Annexure.....to
Attachment-3K

14. Performance details:

*Certificate/*Letter/*E-
mail from End user
enclosed at
Annexure.....to
Attachment-3K

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* **Strike off whichever is not applicable.**

***2.00.00 Applicable for JV Company/Subsidiary Company meeting provenness criteria as per clause no. 4.26.2, Sub section-IA, Part-A of Section-VI.**

2.01.00 We, hereby confirm that JV company/ Subsidiary company (Strike off whichever is not applicable) formed for manufacturing and supply of equipment(s) (*Slurry Recirculation Pumps, *Oxidation Blowers, *Wet Limestone Grinding Mills, *Slurry Pumps, *Agitators) has a valid collaboration or licensing agreement for design, engineering, manufacturing of such equipment(s) in India with a qualified equipment manufacturer who meets the requirements stipulated at clause 4.26.1 of sub-section-IA, Part-A, Section VI of bidding documents (or the technology provider of the qualified equipment manufacturer). Further, in such a case, such qualified equipment manufacturers is having, directly or indirectly through its holding company/subsidiary company, at least 26% equity participation in the Indian Joint Venture Company/subsidiary company, which shall be maintained for a lock-in period of seven (7) years from the date of incorporation of such Joint Venture / Subsidiary or up to the end of defect liability period of the contract, whichever is later. Further, JV / Subsidiary Company (Strike off whichever is not applicable) before resorting to design, engineering, manufacturing of such proven equipment(s) (*Slurry Recirculation Pumps, *Oxidation Blowers, *Wet Limestone Grinding Mills, *Slurry Pumps, *Agitators) by himself should *have sourced /*shall source such proven equipment(s) (*Slurry Recirculation Pumps, *Oxidation Blowers, *Wet Limestone Grinding Mills, *Slurry Pumps, *Agitators) for at least the first 800 MW unit completely from such qualified manufacturer. For subsequent units before

Signature of authorized signatory.....

DJU Format (To be submitted by bidder as specified in the Technical PQR Document No. PE-PQ-434-571-A001)

**FORM OF DEED OF JOINT UNDERTAKING TO BE PROVIDED
FOR(NAME OF EQUIPMENT)
AS PER CLAUSE 4.26.2 OF SUB-SECTION-I-A, PART A, SECTION VI**

(ON NON-JUDICIAL STAMP PAPER OF APPROPRIATE VALUE)

DEED OF JOINT UNDERTAKING TO BE EXECUTED BY THE BIDDER/CONTRACTOR, *INDIAN JOINT VENTURE COMPANY/*SUBSIDIARY COMPANY MEETING THE REQUIREMENTS SPECIFIED AT CLAUSE NO. 4.26.2 OF SUB-SECTION-I-A, PART A, SECTION VI ALONGWITH QUALIFIED EQUIPMENT MANUFACTURER OF..... (NAME OF EQUIPMENT) MEETING THE REQUIREMENTS AS PER CLAUSE 4.26.1 OF SUB-SECTION-I-A, PART A, SECTION VI AND ITS *HOLDING/*SUBSIDIARY COMPANY, AS APPLICABLE FOR SUCCESSFUL PERFORMANCE OF (NAME OF EQUIPMENT), IN WHICH EXECUTANT OF THE DJU ARE JOINTLY AND SEVERALLY LIABLE FOR THE SUCCESSFUL PERFORMANCE OF THE.....(NAME OF EQUIPMENT)

The DEED OF UNDERTAKING executed thisday ofTwo thousandby M/sa Company incorporated underhaving its Registered Office at (hereinafter called the "Bidder/Contractor", which expression shall include its successors, administrators, executors and permitted assigns) AND

****M/s** a (Name of Equipment) Supplier/Manufacturer as per the requirement of Item 4.26.2 of sub-section-IA, Part-A, Section-VI, incorporated under having its Registered Office at (hereinafter called the "*Indian JV/*Subsidiary Company)", which expression shall include its successors, administrators, executors and permitted assigns) AND

M/sa Company registered under the having its Registered Office at (hereinafter called the "Qualified Equipment Manufacturer", which expression shall include its successors, administrators, executors and permitted assigns) AND

*M/s a Company registered under the having its Registered Office at (hereinafter called the "*Holding/*Subsidiary Company of Qualified Equipment Manufacturer", which expression shall include its successors, administrators, executors and permitted assigns),

in favour of Patratu Vidyut Utpadan Nigam Ltd., a subsidiary of NTPC Ltd. in Joint Venture with Jharkhand Bijli Vitran Nigam Ltd., having its Registered Office at NTPC Bhawan, Scope Complex, 7, Institutional Area, Lodhi Road, New Delhi-110003 INDIA (hereinafter called "PVUNL" or "Employer" which expression shall include its successors, administrators, executors and assigns).

WHEREAS, the Employer invited Bids for design, engineering, manufacture, supply, transportation to site, construction, installation, testing, commissioning and conductance of guarantee tests for the **EPC Package for Patratu STPS Expansion Phase-I (3x800MW)** (hereinafter referred to as "Plant") vide its Bidding Document No. **CS-9585-001-2**.

Signature of authorized signatory.....

DJU Format (To be submitted by bidder as specified in the Technical PQR Document
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AND WHEREAS vide clause 4.26.2 of Sub-Section-I-A, Part A, Section VI of bidding documents, it has been specified that a JV / Subsidiary Company formed for manufacturing and supply of equipment(s) in India as listed at clause no. 4.26.1 of Sub-Section-I-A, Part A, Section VI can also manufacture such equipments, provided that it has a valid collaboration or licensing agreement for design, engineering, manufacturing of such equipment(s) in India with a qualified equipment manufacturer who meets the requirements stipulated at clause 4.26.1 of Sub-Section-I-A, Part-A, Section-VI of bidding documents (or the technology provider of the qualified equipment manufacturer). Further, in such a case, such qualified equipment manufacturers should have, directly or indirectly through its holding company/ subsidiary company, atleast 26% equity participation in the Indian Joint Venture Company/ Subsidiary Company, which shall be maintained for a lock-in period of seven (7) years from the date of incorporation of such Joint Venture/ Subsidiary or upto the end of defect liability period of the contract, whichever is later. Further, the JV / Subsidiary Company before resorting to design, engineering, manufacturing of such proven equipment(s) listed at clause no. 4.26.1 of Sub-Section-IA, Part-A, Section-VI of bidding documents by himself should have sourced / shall source such proven equipment(s) for at least the first 800 MW unit completely from such qualified manufacturer. For subsequent units before taking up the manufacturing of such equipment(s), the bidder/ his sub-vendor(s) must create /have created manufacturing facilities at his works as per collaborator's/ licensor's design, manufacturing and quality control system for such equipment(s) In addition, the Bidder/Contractor along with the Indian Joint Venture Company/ Subsidiary Company, qualified equipment manufacturers and its holding/ subsidiary Company, as applicable, shall furnish DJU for each equipment in which executant of the DJU shall be jointly and severally liable for the successful performance of the equipment.

WHEREAS M/s (Bidder/Contractor) has submitted its proposal in response to the aforesaid Invitation for Bid by the Employer bearing No. dated for **EPC Package** for its **Patratu STPS Expansion Phase-I (3x800MW)** (hereinafter referred to as "Plant") against the Employer's Bidding Document No. **CS-9585-001-2**.

AND WHEREAS M/s (*Indian JV/*Subsidiary Company) has been formed for manufacturing and supply of equipment(s) as listed at clause no. 4.26.1 of Sub-Section-IA, Part A, Section-VI who has a valid collaboration or licensing agreement for design, engineering, manufacturing of(Name Of Equipment) in India with M/swho meets the requirements stipulated at clause 4.26.1 of Sub-Section-IA, Part A, Section-VI of bidding documents (or the technology provider of the qualified equipment manufacturer).

AND WHEREAS M/s (Qualified Equipment Manufacturer) is having, *directly *or *indirectly through its *holding company M/s...../ *subsidiary company M/s....., atleast 26% equity participation in the Indian *Joint Venture Company/ *Subsidiary Company, which shall be maintained for a lock-in period of seven (7) years from the date of incorporation of such Joint Venture Company/ Subsidiary Company or upto the end of defect liability period of the contract, whichever is later.

The Bidder/Contractor alongwith the Indian Joint Venture Company/Subsidiary Company, Qualified Equipment Manufacturers and its Holding / Subsidiary Company, as applicable, are required to jointly execute and furnish at the time of placement of order on the approved Joint Venture Company/ Subsidiary Company of (Name of equipment), an irrevocable Deed of Joint Undertaking and be jointly and severally responsible and bound unto

Signature of authorized signatory.....

DJU Format (To be submitted by bidder as specified in the Technical PQR Document
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the Employer for successful performance of the (Name of Equipment) for **Patratu STPS Expansion Phase-I (3x800MW)**, fully meeting the stipulated technical requirements, guaranteed parameters and characteristics as per the Bidding Documents, in the event the bid is accepted by the Employer resulting into a Contract.

NOW THEREFORE, THIS DEED WITNESSETH AS UNDER:

1. We the Qualified Equipment Manufacturer and the *Holding/*Subsidiary Company of Qualified Equipment Manufacturer and Indian *JV/*Subsidiary Company and the Bidder/Contractor, do hereby declare and undertake that we shall be jointly and severally responsible to the Employer for the successful performance of the (Name of Equipment).
2. In case of any breach of the Contract committed by the Indian *JV/*Subsidiary Company, we the Bidder/Contractor and Qualified Equipment Manufacturer and the *Holding/*Subsidiary Company of Qualified Equipment Manufacturer do hereby undertake, declare and confirm that we shall be fully responsible for the successful performance of the (Name of Equipment) and undertake to carryout all the obligations and responsibilities under this Deed of Joint Undertaking in order to discharge the Indian *JV/*Subsidiary Company's obligations stipulated under the Contract. Further, if the Employer sustains any loss or damage on account of any breach of the Contract for the (Name of Equipment), we the Bidder/Contractor and Qualified Equipment Manufacturer and the *Holding/*Subsidiary Company of Qualified Equipment Manufacturer jointly and severally undertake to promptly indemnify and pay such loss/damages caused to the Employer on its written demand without any demur, reservation, Contest or protest in any manner whatsoever. This is without prejudice to any rights of the Employer against the Contractor/ his Sub-Vendor under the Contract and/or guarantees. It shall not be necessary or obligatory for the Employer to first proceed against the Indian *JV/*Subsidiary Company / **Bidder/Contractor before proceeding against the Qualified Equipment Manufacturer and the *Holding/*Subsidiary Company of Qualified Equipment Manufacturer nor any extension of time or any relaxation given by the Employer to the Indian *JV/*Subsidiary Company / **Bidder/Contractor shall prejudice any rights of the Employer under this Deed of Joint Undertaking to proceed against the Qualified Equipment Manufacturer and the *Holding/*Subsidiary Company of Qualified Equipment Manufacturer. The liability of the contractor, his sub-vendor and the associate/collaborator shall be limited to an amount equal to 100% of the value of the contract** between the contractor and the sub supplier for the equipments/systems.
3. Without prejudice to the generality of the Undertaking in paragraph 1 above, the manner of achieving the objective set forth in paragraph 1 above shall be as follows:
 - (a) We the Qualified Equipment Manufacturer and the *Holding/*Subsidiary Company of the Qualified Equipment Manufacturer shall ensure that complete design, manufacturing, quality assurance and installation of the (Name of Equipment) is carried out inline with our manufacturing & quality drawings and procedures and shall be fully responsible for its compliance so as to ensure satisfactory, reliable, safe and trouble free performance of (Name of Equipment).

Signature of authorized signatory.....

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Further, we, the Qualified Equipment Manufacturer and the *Holding/*Subsidiary Company of Qualified Equipment Manufacturer shall extend our quality surveillance/ supervision/ quality control to the Contractor during manufacture, erection, commissioning and performance testing, both at Indian *JV/*Subsidiary Company's works and/ or at Employer's project site.

Further, the Qualified Equipment Manufacturer and the *Holding/*Subsidiary Company of Qualified Equipment Manufacturer shall depute their technical experts from time to time to the Indian *JV/*Subsidiary Company works/ Employer's project site as required by the Employer and agreed to by Indian *JV/*Subsidiary Company to facilitate the successful performance of the (Name of Equipment) as stipulated in the aforesaid Contract.

Further, the Qualified Equipment Manufacturer and the *Holding/*Subsidiary Company of Qualified Equipment Manufacturer shall ensure proper design, manufacture, installation, testing and successful performance of the (Name of Equipment) under the said Contract in accordance with stipulations of Bidding Documents and if necessary, the Qualified Equipment Manufacturer and the *Holding/*Subsidiary Company of Qualified Equipment Manufacturer shall advise the Indian *JV/*Subsidiary Company suitable modifications of design and implement necessary corrective measures to discharge the obligations under the contract.

- (b) In the event Indian *JV/*Subsidiary Company/**Contractor fail to demonstrate that the (Name of Equipment) meets the guaranteed parameters and demonstration parameters as specified in the contract, the Qualified Equipment Manufacturer and the *Holding/*Subsidiary Company of Qualified Equipment Manufacturer shall promptly carry out all the corrective measures related to engineering services at their own expense and shall promptly provide corrected design to the Employer.
 - (c) Implementation of the corrected design and all other necessary repairs, replacements, rectification or modifications to the (Name of Equipment) and payment of financial liabilities and penalties and fulfillment of all other contractual obligations as provided under the contract shall be the joint and severally responsibility of the **Contractor and Indian *JV/*Subsidiary Company and Qualified Equipment Manufacturer and the *Holding/*Subsidiary Company of Qualified Equipment Manufacturer.
4. We, the **Bidder/Contractor and Qualified Equipment Manufacturer and the *Holding/*Subsidiary Company of Qualified Equipment Manufacturer and Indian *JV/*Subsidiary Company do hereby undertake and confirm that this Undertaking shall be irrevocable and shall not be revoked till ninety (90) days after the end of the defect liability period of the equipment covered under the Contract and further stipulate that the Undertaking herein contained shall terminate after ninety (90) days of satisfactory completion of such defect liability period. In case of delay in completion of defect liability period, the validity of this Deed of Joint Undertaking shall be extended by such period of

Signature of authorized signatory.....

DJU Format (To be submitted by bidder as specified in the Technical PQR Document
No. PE-PQ-434-571-A001

delay. We further agree that this Undertaking shall be without any prejudice to the various liabilities of the Contractor including Contract Performance Security as well as other obligations of the Contractor in terms of the Contract.

5. The **Bidder/Contractor and Qualified Equipment Manufacturer and the *Holding/*Subsidiary Company of Qualified Equipment Manufacturer and Indian *JV/*Subsidiary Company will be fully responsible for the quality of all the equipment/main assemblies/components manufactured at their works or at their Vendors' works or constructed at site, and their repair or replacement, if necessary, for incorporation in the Plant and timely delivery thereof to meet the completion schedule under the Contract.
6. In case of Award, in addition to the Contract Performance Security for the Contract, the Qualified Equipment Manufacturer and the *Holding/*Subsidiary Company of Qualified Equipment Manufacturer and Indian *JV/*Subsidiary Company shall each furnish 'as security' an on demand Performance Bank Guarantee in favour of the Employer as per provisions of the bidding documents. The value of such Bank Guarantee shall be equal to **INR 1.5 Million (Indian Rupees One and Half Million)** and it shall be guarantee towards the faithful performance /compliance of this Deed of Joint Undertaking in accordance with the terms and conditions specified herein. The bank guarantee shall be unconditional, irrevocable and valid till ninety (90) days beyond the end of defect liability period of the last equipment covered under the Contract. In case of delay in completion of the defect liability period, the validity of this Bank Guarantee shall be extended by the period of such delay. The guarantee amount shall be promptly paid to the Employer on demand without any demur, reservation, protest or contest.
7. Any dispute that may arise in connection with this Deed of Joint Undertaking shall be settled as per arbitration procedure/rules mentioned in the Contract Documents. This Deed of Joint Undertaking shall be construed and interpreted in accordance with the Laws of India and the Courts of Delhi shall have exclusive jurisdiction.
8. We, the Bidder/Contractor and Qualified Equipment Manufacturer and the *Holding/*Subsidiary Company of Qualified Equipment Manufacturer and Indian *JV/*Subsidiary Company agree that this Undertaking shall form an integral part of the Contracts from the date of signing of this Deed of Joint Undertaking. We further agree that this Deed of Joint Undertaking shall continue to be enforceable till its validity.
9. That this Deed of Joint Undertaking shall be operative from the effective date of signing of this Deed of Joint Undertaking.

IN WITNESS WHEREOF, the Bidder/Contractor and Qualified Equipment Manufacturer and the *Holding/*Subsidiary Company of Qualified Equipment Manufacturer and *Indian Joint Venture Company/ *Subsidiary Company Vendor through their authorised representatives, have executed these presents and affixed common seal of their respective companies, on the day, month and year first mentioned above.

1. WITNESS

For M/s
(Bidder/Contractor)

Signature of authorized signatory.....

DJU Format (To be submitted by bidder as specified in the Technical PQR Document
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.....
(Signature Name) (Signature of the Authorised
Representative)

.....
(Official Address) Name

Designation

Common Seal of the
Company

1. WITNESS For M/s
(Indian *JV/*Subsidiary Company)

.....
(Signature Name) (Signature of the Authorised
Representative)

.....
(Official Address) Name.....

Designation

Common Seal of the
Company

1. WITNESS For M/s
(Qualified Equipment Manufacturer)

.....
(Signature Name) (Signature of the Authorised
Representative)

.....
(Official Address) Name.....

Designation

Common Seal of the
Company

1. WITNESS *For M/s
(*Holding/*Subsidiary Company of
Qualified Equipment Manufacturer)

.....
(Signature Name) (Signature of the Authorised
Representative)

Signature of authorized signatory.....

DJU Format (To be submitted by bidder as specified in the Technical PQR Document
No. PE-PQ-434-571-A001

.....
(Official Address)

Name.....

Designation

Common Seal of the
Company

Note : Power of Attorney of the persons signing the said Deed of Joint Undertaking is to be furnished.

* Contractor/Sub-Vendor shall strike out, whichever is not applicable.

** Copy of priced purchase order for the equipment shall be furnished by Bidder.

Signature of authorized signatory.....