

PRE-QUALIFICATION REQUIREMENTS

Bidder is required to meet the pre-qualification requirements (PQR) for supply of Condenser Air Evacuation Package as per criteria stipulated below. Further, Bidder to furnish documents/ details as per Annexure-1, 2, 3, 4&5 (as applicable), along with the technical offer for proven criteria stipulated below.

Pre-Qualification Requirements		Vendors Confirmation Indicating page no. where document are placed
1.0	Bidder/Vendor (Qualified Equipment manufacturer) should have designed, manufactured, tested and commissioned as per HEI- performance standard for "Condenser Air Evacuation package" (Liquid ring Vacuum Pump package) and supplied "Condenser Air Evacuation package", for at least two (2) number purchase orders (P.Os) and having 30 SCFM capacity or higher in Free dry Air saturated with water vapour at suction pressure of 1"Hg absolute and subcooled by 7.5 deg F at ITD not more than 13.3 deg C for power plant application. "Condenser Air Evacuation package" should be in successful operation for a period not less than two (2) years, as on date of submission of bid.	
2.0	The Indian bidder can offer referred equipment in clause 1.0, provided that, it has technical collaboration or valid licensing agreement (for design/engineering, manufacturing, testing and supply of such equipment), in India, with a manufacturer who meets the requirements stipulated at clause 1.0 above. Indian Bidder should have supplied at least one number of Vacuum pump package having 20 SCFM capacity or higher in Free dry Air saturated with water vapour at suction pressure of 1"Hg absolute and subcooled by 7.5 deg F at ITD not more than 13.3 deg C for power plant application, which is successfully commissioned at project site.	
2.1	Before taking up the manufacturing of such equipment, the Indian bidder should have created manufacturing and testing facilities at its works as per Collaborator/Licensors design, manufacturing and quality control system for such equipment duly certified by Collaborator/Licensors	
2.2	Further, the Collaborator/Licensors should have provided all design, design calculation, manufacturing drgs and should have provided technical and quality surveillance assistance and supervision during manufacturing, testing & commissioning of equipment.	
3.0	An Indian JV/ Subsidiary company in India can offer referred equipment in clause no 1.0, provided that it has a valid collaboration or licensing agreement (for design/engineering, manufacturing ,testing and supply of such equipment), in India with a qualified equipment manufacturer who meets the requirements stipulated at clause 1.0 above.	
3.1	Indian Bidder should have supplied at least one number of Vacuum pump package having 20 SCFM capacity or higher in Free dry Air saturated with water vapour at suction pressure of 1"Hg absolute and subcooled by 7.5 deg F at ITD not more than 13.3 deg C for power plant application, which is successfully commissioned at project site.	
3.2	In addition, the Indian JV/ subsidiary Company and qualified equipment manufacturer shall furnish DJU (Deed of Joint Undertaking) in which executants of the DJU shall be jointly and severally liable for the successful performance of the equipment. JV should be maintained for a lock-in period of min 7 years from the date of bid opening.	
3.3	The Indian bidder should have created manufacturing and testing facilities at its works as per Collaborator/Licensors design, manufacturing and quality control system for such equipment duly certified by Collaborator/Licensors.	
3.4	Further, the Collaborator/Licensors should have provided all design, design calculation, manufacturing drgs and should have provided technical and quality surveillance assistance and supervision during manufacturing, testing & commissioning of equipment.	

24/11/17
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Dy. Insp. HSE

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Documents/Details to be submitted for proven criteria mentioned in clause 1.0, 2.0 & 3.0 of PQR:**A. For Clause 1.0 of PQR : Qualified Equipment Manufacturer**

Bidder to submit following documents in support of above confirmation:

- a. Copies of Un-price purchase orders (P.Os).
- b. Test certificates for performance test of complete Vacuum pump package for capacity & power Vs Suction pressure, duly co-relating P.O No. / Serial no of Package. This Test certificate should be issued by third party inspection agency or acceptance by Customer/end user.
- c. Shipping/dispatch document in support of supply of Vacuum pump packages against P.Os at sl no (a).
- d. Copy of end user certificate issued on letter head as per Annexure-2 for successful operation for two years for two P.Os given at sl no (a). Bidder, who have already supplied the Condenser Air Evacuation package to BHEL Haridwar, need not to furnish end user certificate.
- e. Details of Equipment as per Annexure-3.
- f. Details of Questionnaire as per Annexure-4.

B. For Clause 2.0 of PQR

- a. Bidder to furnish documents mentioned against clause no. A of above to meet the requirements stipulated at clause 1.0 for Qualified Equipment Manufacturer.
- b. MOU/ certificate of collaboration/ licensing agreement for design, engineering, manufacturing, testing and supply of referred equipment in India.
- c. Copy of Un-price purchase order (PO).
- d. Copy of commissioning certificate with acceptance from end user, duly co-relating P.O No. / Serial no of Package.
- e. Shipping/dispatch document in support of supply of Vacuum pump packages against P.O at sl no (c).
- f. Details of Equipment as per Annexure-3.
- g. Details of Questionnaire as per Annexure-4.
- h. Bidder to furnish certificate in support of clause no 2.1 & 2.2 from the collaborator/ licensor/ Qualified Equipment Manufacturer.

C. For Clause 3.0 of PQR:

- a. Bidder to furnish documents mentioned against clause no. A of above to meet the requirements stipulated at clause 1.0 for Qualified Equipment Manufacturer.
- b. Details of Subsidiary/JV Company as per Annexure-5.
- c. Copy of Un-price purchase order (PO).
- d. Copy of commissioning certificate with acceptance from end user, duly co-relating P.O No. / Serial no of Package.
- e. Copy of approved Quality plan and its report, duly co-relating P.O No. / Serial no of Package.
- f. Shipping/dispatch document in support of supply of Vacuum pump packages against P.O at sl no (c).
- g. Details of Equipment as per Annexure-3.
- h. Details of Questionnaire as per Annexure-4.
- i. Bidder to furnish certificate in support of clause no 3.3 & 3.4 from the collaborator/ licensor/ Qualified Equipment Manufacturer.

[Signature]
24/11/17

[Signature]
24/11/17

ANNEXURE-2

Date:

TO WHOM SOEVER IT MAY CONCERN

This is to certify that M/s XXXXX have Designed, Engineered, Manufactured and supplied Condenser Air Evacuation package (Vacuum pump package), model no xxxxx having free dry Air Capacity xxxx SCFM at 1''Hg-a and at ITD xxxx deg C for our xxxxx Plant(Unit/Rating/City/Country), under our Purchase Order No. xxxxx dated xxxx.

The Vacuum pump package was commissioned on dated xxxxx and is in successful operation without any problem since commencement of operation.

Name of the Organization :

Address :

Signature :

Name of the Signatory :

Designation :

Phone No :

Date of issue :

Seal & Stamp of the
Organisation :

Note: If Customer's letter head is in language other than English then translation in English shall be written below header.

ANNEXURE-3: DETAILS OF EQUIPMENT

Bidder's Name and Address :
XXXXXXX

To
BHEL, HEEP, RANIPUR,
Haridwar-249403

S. No.	Item Description
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**CONDENSER AIR EVACUATION PACKAGE
(VACUUM PUMP PACKAGE)**

- | | | |
|------|--|--------|
| 1.0 | Name, Address, Telephone No. of manufacturer | |
| 2.0 | Name of the Station and its Location | |
| 3.0 | Client Name and its Address, Fax No. & Tel.Nos. | |
| 4.0 | Name and Designation of the responsible person in Client's Organisation | |
| 5.0 | Contract No. & Date | |
| 6.0 | Capacity in MW of Unit and No. of Units | |
| 7.0 | Starting Date of Work/
Date of Order | |
| 8.0 | Scheduled Date of Completion | |
| 9.0 | Actual Date of Completion | |
| 10.0 | Date of Commissioning of System/Package | |
| 11.0 | Whether the System/Equipments are in Successful Operation for a minimum period of one (1) year prior to the date of Techno-Commercial bid opening. | Yes/No |
| 12.0 | Date of Commencement of Successful Operation | |

Signature of authorized signatory

S. No.	Item Description
13.0	Brief Scope of Work
14.0	Brief Technical Particulars of the System/Package/Equipments :
	(i) Designed by
	(ii) Manufactured by
	(iii) Type (Liquid Ring Type or any other type)
	(iv) Make / Model No.
	(v) Number per T.G. Unit
	(vi) Rated free Dry Air Capacity in SCFM [at 25.4 mm Hg (abs) Suction Pressure at 21.1°C] of each Pump
	(vii) Hogging Capacity of each Pump (at 254mm Hg (abs) Suction Pressure in SCFM
	(viii) I.T.D. (deg.C)
	(ix) Temp. of Cooling Water to Vacuum Pump Heat Exchanger (deg.C)
	(x) Type of Heat Exchanger (Shell & Tube Type/Plate Type)
	(xi) No. of Stages
	(xii) Whether Air Ejector is provided or not
	(xiii) Impeller Material

Signature of authorized signatory

S. No.	Item Description	
	(xiv) Casing Material	
15.0	Are these Condenser Air Evacuation Pumps running with Steam Turbine Generator Sets	Yes/No
16.0	<u>Motor</u> i. Type ii. Manufacturer iii. Rating iv. Origin of country	

Signature of authorized signatory.....

Name of Equipment / Item / Process with Model/ Type/ Rating / Capacity/ Size/ Tonnage etc. (As applicable):

Trade Name of Product (if any) : _____

1. **Name of Proposed Sub-Supplier:** _____

Website: _____

2. **Address of Regd. Office:**

Details of contact person:

Name _____

Mobile no. _____

Desig. _____

E-mail: _____

3. **Branch/ Liaison office in Delhi/NCR**

Details of contact person:

Name _____

Mobile no. _____

Desig. _____

E-mail: _____

Weekly off day _____

4. **Address of Works where Item is being manufactured**

Details of contact person:

Name _____

Mobile no. _____

Desig. _____

E-mail: _____

5. **Details of Proposed Works:**

- a. Year of Establishment of present works : _____
- b. Year of Commencement of : _____
Manufacturing at the above works
- c. Details of change in works address in past, if any : _____
- d. TotalArea / Covered Area : _____
- e. Details of covered area like no. of sheds, _____
Area of each shed etc.
- f. Electric power- Connected load: _____
Electric power- Stand by load & system: _____

6. **Annual Turnover & Profit in past three years** : _____

7. **Do you have in-house Department for:**

- a) Design Yes/No
- b) Research & Development Yes/No
- c) Quality control/Inspection Yes/No
- d) After Sales Service Yes/No

8. **Shift works per day** One/Two/Three

9. **Present Manpower Status:**

Division Status	Graduate		Diploma	Skilled	Un-Skilled	Remarks
	Technica l	Non- Technical				
Design						
Production						
Quality Control/ Inspection						
After Sales Service						

- a. Organization chart of the proposed works is enclosed as Annexure: _____
- b Organization chart of QA / QC Deptt. is enclosed as Annexure: _____
- c. List of Qualified Welders with process etc. is enclosed as Annexure: _____
- d. List of Qualified NDT personnel with area of specialization is enclosed as Annexure: _____

10. Brief details of items manufactured:

Sl. No.	Item & Material (Type/Size/Rating/Model/ Capacity /Tonnage , as applicable)	Installed Capacity	Annual Production Capacity	Annual Production for last Three years		
				I	II	III

11. Details of foreign Collaboration, if any:

Sl. No.	Product	Name & Address of Collaborator	Collaboration		
			Scope	Year	Valid upto

12. Type Test report for the proposed product (similar or higher rating)if applicable is enclosed as Annexure: _____
- 13 Approval / Certification by National / International standards / Accredited agency for the proposed product (if applicable) is enclosed as Annexure: _____
14. Statutory / mandatory certification for the proposed product (if applicable) is enclosed as Annexure: _____
15. Supply Experience list of the proposed product (similar or higher rating) is enclosed as Annexure: _____

[List shall include Item description, (Type/Size/Rating/Model/Capacity/Tonnage, as applicable), Customer name, Quantity, Year of Supply and Year of commissioning]

16. End User's operational feedback certificate for the proposed product is enclosed as Annexure: _____
17. List of equipment & machinery specific to the proposed product is enclosed as Annexure: _____
(List shall include name of equipment, capacity & nos. etc.)
18. Process Flow Diagram indicating in-house & outsourced process enclosed as Annexure: _____
19. General manufacturing facilities available in-house:

Sl. No.	Description of machine	Type /Capacity / Size / Rating etc as applicable	Number
a)	Material Handling Mobile Crane Fork Lift Over Head Cranes		
b)	Metal Cutting & Bending		
c)	Casting		
d)	Forging		
e)	Fabrication		
f)	Welding		
g)	Machining		
h)	Heat Treatment		
i)	Surface Cleaning Sand Blasting Shot Blasting Pickling		
j)	Painting		
k)	Metal Coating		

b. List of Testing & Inspection Facilities outsourced, if any with Source of testing and Description enclosed as Annexure: _____

21. Storage of finished goods (covered / open) : _____

22 List of the source / make with location of major raw material, bought out items and out sourced process enclosed as Annexure: _____

23. Quality management:

23.1 General

23.1.1. Work Instruction for different processes available. (Y/N). ____

If yes, enclose list as Annexure _____

23.1.2. Evaluation system for raw material/bought out item's supplier is available. (Y/N) _____

23.1.3. Records generated during inspection maintained & available for review (Y/N) _____

23.1.4 Statistical quality control techniques used (Y/N) _____

23.1.5 ISO certificate for the works available (Y/N). ____ If yes, enclose copy as Annexure _____

23,2 Corrective action

23.2.1 Specifically confirm whether System for identification & disposition of Non Conformity in the process / product is available. (Y/N) _____

23.2.2 Specifically confirm whether System for Customer complains & their satisfactory disposal is available. (Y/N) _____

23.3. Documentation Control

23.3.1 Procedure available for documentation control (Y/N) ____

23.4. Control of Inspection, Measuring & Testing equipments.

23.4.1 Procedure for calibration of testing & measuring instrument available. (Y/N) ____

24. Any Special Information: _____

26. I CERTIFY THAT THE INFORMATION SUPPLIED HEREIN (INCLUDING ALL PAGES ATTACHED) IS CORRECT TO THE BEST OF MY KNOWLEDGE.

SEAL
M/S. _____
PLACE _____
DATE _____

SIGNATURE _____
NAME _____
DESIGNATION _____
MOBILE NO _____
EMAIL _____

LIST OF ENCLOSURE:

Certification by Main Supplier: Above information have been verified and found in order / minor changes which have been marked and initialed on this form itself / observed the following discrepancies.

Name : _____ Designation : _____ Signature : _____ Date : _____

NOTE :

1. COLUMN SHALL NOT BE LEFT UNFILLED..IN CASE OF NOT APPLICABLE / NOT AVAILABLE, THE SAME SHALL BE INDICATED IN THE PROVIDED SPACE.
2. IN CASE PROVIDED SPACE IS NOT ADEQUATE, INFORMATION SHALL BE PROVIDED AS AN ATTACHMENT.
3. PRODUCT CATALOGUE FOR THE PROPOSED EQUIPMENT/ITEM/PROCESS,IF AVAILABLE, SHALL BE ENCLOSED

S. No.	Item Description
	Details of Subsidiary/JV Company proposed for manufacturing of Vacuum pump package
1.0	Name and Address with Telephone Number of the Indian Subsidiary / JV Company proposed for manufacturing of (Name of the equipment).
2.0	Name and Address with Telephone No. of the promoter(s) of the Subsidiary/ JV Company
3.0	% of the Equity held by the promoter(s)
4.0	Equity lock in period (from the date of incorporation of JV)
5.0	Name and Address with Telephone No. of a promoter of Subsidiary / JV Company formed who meets the requirement of Clause 1.0.
6.0	M/s. (the subsidiary/ JV Company) has a collaboration or valid licensing agreement with M/s (subsidiary/JV promoter) for design, Engineering, Manufacturing & Supply of (Name of the equipment) in India. (Please furnish details of collaboration/ licensing agreement

Signature of authorized signatory.....

S. No.	Item Description
7.0	If equity held by the Qualified Equipment Manufacturer
8.0	Whether equity held directly or indirectly ?
9.0	If indirectly then furnish the relationship tree alongwith all relevant subsidiaries holding company
10.0	Please furnish the committment for lock in period as per requirement
11.0	Bidder to furnish documentry evidence \ in support of above date

Date	:	(Signature).....
Place	:	(Printed Name).....
		(Designation).....
		(Common Seal).....

Signature of authorized signatory.....