

**Ref. Enquiry No.: PE/PG/RGM/E-6814/2021 dated 25.11.2021**

<b>DUE DATE</b>
<b>23.12.2021</b>
<b>BY 02:00 PM</b>

Dear Sir / Madam,

**Subject: Global Tender Enquiry for “AGITATOR OF FGD SLURRY TANKS” for (3x200 + 3X500) MW RAMAGUNDAM FGD project.**

BHEL invites your offer for SUPPLY PART , SERVICES PART and MANDATORY SPARES comprising of design (i.e. Preparation and submission of drawing /documents including “As Built” drawings and O&M manuals), engineering, manufacture, fabrication, assembly, inspection / testing at vendor's & sub-vendor's works, painting, maintenance tools & tackles, , first fill and top-up of lubricants & consumables till handing over, mandatory spares along with spares for erection, start-up and commissioning, forwarding, proper packing, shipment and delivery at site, assembly and Services part covers supervision services for erection & commissioning, trial run at site and carrying out Performance guarantee tests at site, training of customer/ client O&M staff covering all aspects of the AGITATOR including Operation & Maintenance, Troubleshooting etc., training of customer's personnel at manufacturer's works & handover in flawless condition of the package to the customer complete with all accessories for the total scope defined as per BHEL NIT & tender technical specification, amendment & agreements till placement of order for Flue Gas Desulphurization (FGD) plant of (3x200 + 3X500)MW RAMAGUNDAM FGD project at Peddapalli Distt, Telangana of NTPC LTD.

Your best quotation / offer shall be submitted in two parts strictly as per Clause-2.0 of the “Instructions to Bidders” of GCC, Rev. 07, in line with our terms and conditions, online via NIC e-procurement portal on <https://eprocurebhel.co.in>.

S. No.	PROJECT	ITEM DESCRIPTION	TECHNICAL SPECIFICATION NO.
1	(3x200 + 3X500) MW RAMAGUNDAM FGD SYSTEM PROJECT	AGITATOR OF FGD SLURRY TANKS	PE- TS- 467- 571- 18000-A002

**Note:** 1. Detailed tender documents have been uploaded at the following websites.

- <https://eprocurebhel.co.in>
- [www.bhel.com](http://www.bhel.com)
- [www.bhelpem.com](http://www.bhelpem.com)
- Corrigenda, addenda, amendments, time extensions, clarifications etc. to the tender will be hosted only on [www.bhelpem.com](http://www.bhelpem.com), [www.bhel.com](http://www.bhel.com) & <https://eprocurebhel.co.in> under subject tender reference. Bidders are requested to visit our websites from time to time to keep themselves updated.
- Your best quotation/offer for the above requirement, in line with enquiry terms and conditions, should be submitted online via e-procurement portal (<https://eprocurebhel.co.in>). It shall be the responsibility of the bidder to ensure that the tender is submitted **via e-PROCUREMENT SYSTEM** (<https://eprocurebhel.co.in>) **on or before the due date by 2:00 P.M. Part-I bids shall be opened at 5:00 P.M on the due date through e-procurement Portal** (<https://eprocurebhel.co.in>).
- Bidders are requested to go through the Technical Specifications and Tender documents thoroughly and submit their queries (if any) to BHEL within 10 days from the date of NIT. Pre-bid meeting with bidders shall also be conducted on the 12th day from NIT i.e on 07.12.2021 (2.00PM) and meeting link for pre bid meeting is as below.**

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**Link for Pre-Bid Meeting on Ms-Teams:**

[https://secure-web.cisco.com/1SdbkCjwYkQSPyIOzpvO2gkFU9CSCsvkqV7Oyw4JjpxBRn3NTmHAjIzm2USMwPzZLl1RnpO2FDk1SN M2ULhm5S0xpaJ0ICx45516kXz7FXDXsXxK5omCO-83ZE1XmzshyMfgf\\_bvfejXB5HDXKWGS9VzTDDJIQfE-wdPIO75v7S6X99pysqufrRotsGbgH DfsTU9WSU9W5i77PCJmTYAn7JdwMHOAkqyLvcC-ch MCjxaeDRCq5vRfYgU9WwAFN/https%3A%2F%2Fteams.microsoft.com%2F1%2Fmeetup-join%2F19e253ab221088fd7c44465beba146fee6fd0b4%2540thread.tacv2%2F16377415859363Fcontent%3D%2527b%2522Tid%2522%253a%2522b5fad749-aea2-4c55-a02b-fdbd7bcf8a8c%2522%252c%2522Oid%2522%253a%2522e24ba3fe-b40e-4747-a9bc-44e7f45ac3f8%2522%257d](https://secure-web.cisco.com/1SdbkCjwYkQSPyIOzpvO2gkFU9CSCsvkqV7Oyw4JjpxBRn3NTmHAjIzm2USMwPzZLl1RnpO2FDk1SN M2ULhm5S0xpaJ0ICx45516kXz7FXDXsXxK5omCO-83ZE1XmzshyMfgf_bvfejXB5HDXKWGS9VzTDDJIQfE-wdPIO75v7S6X99pysqufrRotsGbgH DfsTU9WSU9W5i77PCJmTYAn7JdwMHOAkqyLvcC-ch MCjxaeDRCq5vRfYgU9WwAFN/https%3A%2F%2Fteams.microsoft.com%2F1%2Fmeetup-join%2F19e253ab221088fd7c44465beba146fee6fd0b4%2540thread.tacv2%2F16377415859363Fcontent%3D%2527b%2522Tid%2522%253a%2522b5fad749-aea2-4c55-a02b-fdbd7bcf8a8c%2522%252c%2522Oid%2522%253a%2522e24ba3fe-b40e-4747-a9bc-44e7f45ac3f8%2522%257d)

Tap on the link or paste it in a browser to join.

Reply of pre-bid queries shall be sent to bidders within 15 days from the date of NIT.

**ENQUIRY TERMS AND CONDITIONS:**

1. In this Enquiry GCC REV. 07 is applicable. Link to GCC REV. 07 is <https://pem.bhel.com/gcc.aspx>
2. Offers should be submitted separately in two parts **online through e-procurement system** as follows:  
**Part-I: TECHNO-COMMERCIAL BID** **Part-II: PRICE BID**  
For detailed instructions, please see Pg. 1-15 of “Instructions to Bidders” of GCC Rev. 07.
3. Bidders to note that following form the part of tender documents & will become a part of the Order / Contract after its finalisation:
  - a. General Conditions of Contract (GCC) Rev. 07 comprising of Instructions to Bidders and General Commercial Terms & Conditions.
  - b. Technical Specification.
  - c. Special Conditions of Contract (SCC, Rev. 00).
  - d. Enquiry/NIT Letter with Terms & Conditions.
  - e. Technical PQR & Financial PQR.
  - f. Guaranteed Power Consumption as per enclosed format
  - g. Format for Local Content Certification
  - h. NTPC’s Main & Sub-Supplier Questionnaire
4. Tenders shall be submitted strictly in accordance with the requirements of the above mentioned tender documents. Deviations (Technical as well as Commercial), if any, shall be listed out separately in Annexure-II (Cost of withdrawal) of GCC, Rev. 07 along with reasons for taking such deviations. Any deviations (Technical as well as Commercial) not mentioned in the Annexure-II (Cost of withdrawal) and standard pre-printed terms & conditions shown separately or found hidden in the offer, will not be taken cognizance of. Bidders to note all the points mentioned in “Notes” of Annexure-II to GCC, Rev. 07.
5. In case of joint bidding, Bidders shall be required to furnish scope matrix which should be clearly defined between them along with the offer for the complete scope as per NIT.

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**6. Bidder to note that this is a conditional Global Tender enquiry. Hence, Price Bid (Part-II) Opening shall be subject to following criterion:**

- i. Techno-commercial qualification / recommendation of bidder by BHEL-PEM.
- ii. Approval of bidder by Customer: - NTPC approval shall be taken up by BHEL with end customer-NTPC based on the credentials / reference list. Hence, Bidders are requested to submit the following (as part of their credentials) on or before Part-I opening: -
  - NTPC's Main & Sub-supplier questionnaire (enclosed with enquiry) and submit all the supportive documents against details furnished therein (signed & stamped on each page).
- iii. **Pre-Qualifying Requirements:** - Bids of only those bidders shall be evaluated who meet the Technical pre-qualifying requirements.

**Bidders to ensure that Third party/customer issued certificates being submitted as proof of PQR qualification should have verifiable details of documents/certificate issuing authority such as name & designation of issuing authority and its organisation contact number and email id etc. In case the same found not available, Purchaser has right to reject such document from evaluation.**

**7. Delivery Schedule: -**

- (a) **Main Supply:** - Within 09 (NINE) months from the date of PO/LOA. Drawings/ documents submission/ re-submission schedule shall be as per Annexure-IV of Sub-Section D of Section-I of Technical Specification No. of PE-TS-467-571-18000-A002 for **(3x200 + 3x500)MW RAMAGUNDAM FGD PROJECT**. Any delay in BHEL's comments/ approval on primary drgs/docs beyond 18 days shall be in BHEL's account and will be considered for delay analysis. Further delivery schedule shall be accordingly extended beyond 9 months of PO date in case of delay in approval/comments on drgs/docs beyond 18 days from BHEL's end.  
Drawings/documents list along with submission/re-submission schedule has been given in the technical specification (Annexure-IV of Sub-Section D of Section-I), wherein the drawings have been classified as Primary and Secondary drawings (primary drawings are required for manufacturing).
- (b) **Mandatory Spares:** Supply of mandatory spares shall be along with last lot of main equipment supply.
- (c) **Supervision for Services & PG Test:** - Bidder to depute their personnel at site within 4 weeks from the date of intimation by BHEL

**Further Following to be noted**

- a. The end period specified is for completion of the deliveries. Deliveries to start progressively so as to meet the completion schedule.
- b. The delivery conditions specified are for contractual LD purposes, however BHEL may ask for early deliveries without any compensation thereof.
- c. Non-applicable drawings shall be decided during contract execution.
- d. Wherever schedule of drawings/documents submission / re-submission is stipulated in the Technical Specifications, same shall be superseded by delivery specified in NIT.

**8. The Evaluation Currency for this tender shall be INR.**

**9. Evaluation will be done on Total cost to BHEL (excluding GST) for group wise agitators as per item description in Price schedule (i.e. group wise evaluation shall be done separately for Horizontal and Vertical type Agitators). Thus, bidder can quote both horizontal and vertical type agitators (Complete Scope) or either Horizontal/Vertical type Agitator (Part Scope).**

(Ref- Cl. No. 19.2 of Instruction to Bidders of GCC, Rev. 07)

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"In course of evaluation, if more than one bidder happens to occupy L-1 status, effective L-1 will be decided by soliciting discounts from the respective bidders.

In case more than one bidder happens to occupy L-1 status even after soliciting discounts, the L-1 bidder shall be decided by a toss/ draw of lots, in the presence of respective bidder(s) or their representative(s).

Ranking will be done accordingly. BHEL's decision in such situation shall be final and binding."

10. **Bidders to note that group wise (horizontal type/Vertical type) agitator evaluation will be done as per item description in Price schedule. Thus, bidder can quote both horizontal and vertical type agitators (Complete Scope) or either Horizontal/Vertical type Agitator (Part Scope).**
11. **"BHEL shall be finalizing this tender with price bid opening and will not be conducting RA. Bidders to quote suitably. Bidders to note that this clause will supersede clause no 13 of 'Instruction to Bidders' of GCC Rev 07.**
12. **CIF is available for (3x200 + 3X500) MW RAMAGUNDAM FGD project. Bidders to indicate the CIF (Import) contents i.e. list of the item, Currency of Import and Country of Import including CIF value in their bids/offers. The benefits availed in Concessional Customs Duty must be passed on to BHEL in their bids/offers (Refer point no. 19 of project SCC Rev0)**
13. **Overall (%) variation in contract values (due to changes in the scope) shall be LIMITED TO (+/-) 10%. This will prevail over the quantity variation Cl. No. 6.0 of GCC, Rev. 07.**
14. **Contract Performance Bank Guarantee shall be as per Cl. no. 11.0 of GCC Rev 07. However, value of BG shall be 3% of Order/Contract value (excluding taxes, duties & freight) instead of 5%.**
15. **Wherever Service charges like Supervision, Inspection etc consequent or incidental to supply are envisaged in tender, such charges should not exceed 2% of the total contract value.**
16. **The nature of package is "Non-divisible".**
17. **For this procurement, Public Procurement (Preference to Make in India), Order 2017 dated 15.06.2017, 28.05.2018, 29.05.2019, 04.06.2020, 16.09.2020 and subsequent Orders issued by the respective Nodal Ministry shall be applicable even if issued after issue of this NIT but before finalization of contract/ PO/ WO against this NIT. In the event of any Nodal Ministry prescribing higher or lower percentage of purchase preference and/ or local content in respect of this procurement, same shall be applicable.**
18. **For this procurement, the local content to categorize a supplier as a Class-I local supplier/Class-II local supplier/Non-local supplier, is as defined in Public Procurement (Preference to Make in India), Order 2017 dated 04.06.2020 issued by DPIIT. In case of subsequent orders issued by Nodal Ministry, changing the definition of local content for the items of the NIT, the same shall be applicable even if issued after issue of this NIT, but before opening of Part-II bids against this NIT"**  
**The local supplier at the time of tender, bidding or solicitation shall be required to provide self-certification (in prescribed format as enclosed) that the item offered meets the minimum local content as per above mentioned orders and shall give details of the location(s) at which the local value addition is made.**

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19. **Bidders to ensure compliance of Ministry of Finance (MoF) DoE Order (Public Procurement No.1 & 2) F. No. 6/18/2019/PPD Dt. 23/07/2020 & DoE Order no. 18/37/2020-PPD Dt. 08/02/2021.**

- i) Bidders to also submit "Model Certificate for Tenders" as per Annexure-III of above referred order of MoF.
- ii) Any bidder from a country which shares land border with India will be eligible to bid in any procurement only if the bidder is registered with the Competent Authority (Registration Committee constituted by DPIIT as per annex-I of the above referred Order).
- iii) In case bidder has proposed to supply finished goods directly/indirectly from vendors from the countries sharing land border with India, such vendor will be required to be registered with the competent authority

• A bidder is permitted to procure raw material, components, sub-assemblies etc. from the vendors from countries which shares a land border with India. Such vendors will not be required to be registered with the Competent Authority, as it is not regarded as "sub-contracting".

• In case bidder has proposed to supply finished goods directly/indirectly from vendors from the countries sharing land border with India, such vendor will be required to be registered with the competent authority (Registration Committee constituted by DPIIT as per annex-I of the Order).

20. **Bidders to ensure compliance to Ministry of Power (MoP) Order No. 25-11/6/2018-PG dt. 02/07/2020 & Order No. 11/05/2018-Coord. Dt.23/07/2020, if applicable.**

21. **Due to COVID-19 pandemic condition prevailing in the country, BHEL/PEM may go for Remote Inspection of Offered items, if required. Vendors are requested to be equipped with the facilities/gadgets as indicated in the guidelines attached to take up the inspection REMOTELY. "**

22. **The Bidder declares that they will not enter into any illegal or undisclosed agreement or understanding, whether formal or informal with other Bidder(s). This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process. In case, the Bidder is found having indulged in above activities, suitable action shall be taken by BHEL as per extant policies/ guidelines."**

23. **Integrity Pact (IP)**

- a) IP is a tool to ensure that activities and transactions between the Company and its bidders/Contractors are handled in fair, transparent and corruption free manner. Following Independent External Monitors (IEMs) on the present panel have been appointed by BHEL with the approval of CVC to oversee implementation of IP in BHEL.

Sl No.	IEM	Email ID
1	Shri Arun Chandra Verma, IPS (Retd)	acverma1@gmail.com
2	Shri Virendra Bahadur Singh, IPS (Retd)	vbsinghips@gmail.com

- b) The IP as enclosed with the tender is to be submitted (duly signed by authorized signatory) long with techno-commercial bid (Part-I in case of two/three part bid). Only those bidders who have entered into such an IP with BHEL would be competent to participate in the bidding. In other words, entering into this pact would be preliminary qualification.

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- c) Please refer Section-8 of IP for Role & Responsibilities of IEMs. In case of any compliant arising out of the tendering process, the matter may be referred to any of the above IEM(s). All correspondences with the IEMs shall be done through email only.

**Note:** No routine correspondence shall be addressed to the IEM (phone/post/email) regarding the clarifications, time extensions or any other administrative queries etc on the tender issued. All such clarification /issues shall be addressed directly to the tender issuing (procurement) department's officials whose contact details are provided below:

<b>ISHA RAWAT/DY MGR, PG-III</b> <b>E-MAIL: isharawat@bhel.in</b> <b>Ph. No. +91-120-4213577; Mob: +91-9711099607</b>	<b>PRAMOD KUMAR GAUTAM/SDGM, PG-III</b> <b>E-MAIL: pkgautam@bhel.in</b> <b>Ph. No. +91-120-4368545; Mob: +91-9958080692</b>
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24. Bidders to submit performance security required for execution of the contract within the time period mentioned in Cl no. 11.2 of GCC Rev07. In case of delay in submission of performance security, enhanced performance security which would include interest (SBI rate + 6%) for the delayed period, shall be submitted by the bidder. Further, if performance security is not submitted till such time the first bill becomes due, the amount of performance security due shall be recovered as per terms defined in NIT /contract, from the bills along with due interest.
25. The offers of the bidders who are on the banned list and also the offers of the bidders, who engage the services of the banned firms, shall be rejected. The list of banned firms is available on BHEL website <http://www.bhel.com>.
26. The Bidder along with its associate / collaborators / sub-contractors / sub-vendors / consultants / service providers shall strictly adhere to BHEL Fraud Prevention Policy displayed on BHEL website <http://www.bhel.com> and shall immediately bring to the notice of BHEL Management about any fraud or suspected fraud as soon as it comes to their notice.
27. Bidders participating in subject tender will necessarily have to buy class III DSCs (Digital Signature Certificate) issued by the certifying authorities in India. Basic procedure /checklist is uploaded on "www.bhel.com" for participating in tender enquires through e-procurement. Bidders may go through the Sellers' manual & Help documents provided on E-Procurement Portal website & obtain required Digital Signature Certificate for participating in the subject Tender.
28. This item/package/system falls under the list of items defined in Para 3 of Ministry of Finance guidelines dated 20.09.2016 (procurement of items related to public safety, health, critical security operations and equipment's etc.) & hence criteria of prior experience/turnover shall be same for all the bidders including startup/ MSME.
29. For the bidders (who are not registered with BHEL-PEM), Online Registration Portal is operational in BHEL. Non-registered Vendors, who wish to apply for registration with BHEL-PEM, have to apply through Online Registration Portal available at [www.bhelpem.com](http://www.bhelpem.com) → vendor section → Online Supplier Registration. All credentials and/or documents duly signed and stamped related to registration has to be uploaded on the website and submit the application for registration. One set of hard copy of the filled-up SRF downloaded from Online Registration Portal duly signed and stamped has to be submitted.

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30. Please note that for technical bid, detailed offers are to be submitted including the following along with the Price schedule as per BHEL format enclosed with NIT: -
- Acceptance of GCC Rev. 07
  - Acceptance of Special Conditions of Contract (SCC).
  - Acceptance of Technical Specification
  - Along with your offer, please submit a copy of this letter duly signed & stamped on each page as token of acceptance of all terms & instructions conveyed.
  - Unprice Bid of "BOQ cum Price format"
  - Technical PQR documents.
  - Guaranteed Power Consumption as per enclosed format
  - Local Content Certification in the enclosed format
  - NTPC's Main & Sub-Supplier Questionnaire
  - Model Certificate as per Annx-III of DoE (Order 1 & 2) Dt. 23/07/2020

Thanking You.

Yours Sincerely,

**Isha Rawat (Dy Mgr / PG-III / BHEL-PEM)**

**Enclosures:**

1. Technical Specification No. of PE-TS-467-571-18000-A002
2. BOQ and Format for Guaranteed Power Consumption
3. Project SCC, Rev00 for (3x200 + 3X500) MW RAMAGUNDAM FGD project.
4. Technical PQR.
5. Format for Local Content Certification
6. Integrity Pact
7. NTPC's Main & Sub-Supplier Questionnaire
8. Guidelines for Remote Inspection.
9. Ministry of Finance (MoF) DoE Order (Public Procurement No.1 & 2) F. No. 6/18/2019/PPD Dt. 23/07/2020 and DoE Order no. 18/37/2020-PPD Dt. 08/02/2021.
10. Ministry of Power (MoP) Order No. 25-11/6/2018-PG dt. 02/07/2020 & Order No. 11/05/2018-Coord. Dt.23/07/2020.



**TITLE:**  
**(3x200+3x500) MW RAMAGUNDAM FGD**  
**TECHNICAL SPECIFICATIONS FOR**  
**AGITATORS OF FGD SLURRY TANKS**

**SPECIFICATION No: PE-TS-467-571-18000-A002**

**SECTION-I, SUB-SECTION- D**

**REV. 00**

**DATE: OCT 2021**

**SHEET : 1 OF 1**

## **ANNEXURE-IV**

### **MASTER DRAWING LIST WITH SCHEDULE OF SUBMISSION**





	TITLE:		(3x200+3x500) MW RAMAGUNDAM FGD TECHNICAL SPECIFICATIONS FOR AGITATORS OF FGD SLURRY TANKS		SPEC. NO.: PE-TS-467-571-18000-A003
					SECTION-I, SUB-SECTION- D, ANNEXURE-IV
					REV. NO.: 0
					DATE OCT 2021

#### DRAWINGS/ DOCUMENTS REQUIRED DURING DETAIL ENGINEERING

The successful bidder shall submit the following drawings / documents during detail engineering for approval / information / reference (as the case may be):-

Sl. No.	BHEL Drawing / Document No.	Title	Schedule Date	Drawing Classification
1	PE-V0-467-571-A001	GA drawing, Exploded view, sectional view with Material of construction, mechanical seal , gearbox for all Agitator models	2 weeks from LOI	Primary
2	PE-V0-467-571-A002	Data sheet for all Agitator	2 weeks from LOI	Primary
3	PE-V0-467-571-A003	Agitator Performance curve of all Agitators	2 weeks from LOI	Primary
4	PE-V0-467-571-A004	Electrical motor GA drawing & Data sheet and performance curves of all motors	2 weeks from LOI	Primary
5	PE-V0-467-571-A005	Quality plan & Inspection and Test Procedure	2 weeks from LOI	Primary
6	PE-V0-467-571-A006	Agitator and Motor Sizing Calculation	2 weeks from LOI	Primary
7	PE-V0-467-571-A007	O&M Manual for Agitator	4 weeks from LOI	Secondary
8	PE-V0-467-571-A008	Utility Consumption	4 weeks from LOI	Secondary
9	PE-V0-467-571-A009	Foundation Data including Anchor plan	4 weeks from LOI	Secondary
10	PE-V0-467-571-A010	Lubricating oil list	4 weeks from LOI	Secondary
11	PE-V0-467-571-A011	Special tools list, Start-up & Commissioning Spares	4 weeks from LOI	Secondary
12	PE-V0-467-571-A012	Installation and assembly procedure including Pre Commissioning Check List	4 weeks from LOI	Secondary

	<b>TITLE:</b>  <b>(3x200+3x500) MW RAMAGUNDAM FGD</b> TECHNICAL SPECIFICATIONS FOR AGITATORS OF FGD SLURRY TANKS	SPEC. NO.: PE-TS-467-571-18000-A003
		SECTION-I, SUB-SECTION- D, ANNEXURE-IV
		REV. NO.: 0
		DATE OCT 2021
<p><b>NOTES:</b></p> <ol style="list-style-type: none"> <li> <p>Bidder to note that BHEL reserves the right for drawing/document submission through web based document management system. Bidder would be provided access to the DMS for drawing/document approval and adequate training for the same. Detailed methodology would be finalized during the kick-off meeting. Bidder to ensure following at their end.</p> <ol style="list-style-type: none"> <li>internet explorer version – minimum internet explorer 7.</li> <li>Internet speed – 2 mbps (minimum preferred).</li> <li>Pop ups from our external DMS IP (124.124.36.198) should not be blocked.</li> <li>Vendor's internal proxy setting should not block DMS application's link (<a href="http://dmsserver.bhelpem.com/wrench%20web%20access/login.aspx">http://dmsserver.bhelpem.com/wrench%20web%20access/login.aspx</a>).</li> </ol> </li> <li> <p>The above drawing list is tentative and shall be finalized with the successful bidder after placement of order. While some of the drawings indicated above may not be applicable, some additional drawings may also be required based on scope of work.</p> </li> <li> <p>Drawings shall be prepared in Auto-Cad latest edition. Required no. of hard and soft copies (editable) of the drawings shall be furnished as per requirement specified elsewhere in the specification.</p> </li> <li> <p>Only manual calculation with authentic supporting literature (e.g. extracts of hand Book/ standard/codes) shall be acceptable. All design calculations and drawings shall be in SI system only.</p> </li> <li> <p>All the drawings and documents including general arrangement drawing, data sheet, calculation etc. to be furnished to the customer during detailed engineering stage shall include / indicate the following details for clarity w.r.t. Inspection, construction, erection and maintenance etc.:</p> <ol style="list-style-type: none"> <li>All drawings and documents shall indicate the list of all reference drawings including General Arrangement.</li> <li>All drawings shall include / show plan, elevation, side view, cross-section, skin section, blow-up view; all major self-manufactured and bought out items shall be labelled and included in BOQ / BOM in tabular form.</li> <li>Painting schedule shall also be made as a part of general arrangement drawing of each equipment / items indicating at least 3 trade names.</li> <li>All the drawings required to be furnished to customer during detailed engineering stage shall include technical parameters, details of paints and lubrication, hardness and BOQ / BOM in tabular form indicating all major components including bought out items and their quantity, material of construction indicating its applicable code / standard, weight, make etc.</li> </ol> </li> </ol>		

	<b>TITLE:</b> <b>(3x200+3x500) MW RAMAGUNDAM FGD</b> TECHNICAL SPECIFICATIONS FOR AGITATORS OF FGD SLURRY TANKS	SPEC. NO.: PE-TS-467-571-18000-A003 SECTION-I, SUB-SECTION- D, ANNEXURE-IV
		REV. NO.: 0      DATE    OCT 2021

e) Void.

f) Drawings and documents not covered above but required to check safety of machines/ system, shall be submitted during detailed engineering stage without any commercial implication.

g) All drawings shall include "B.O.M" and indicate quantity, material of construction, make along with IS/BS No., Technical parameters, dimensions, hardness, machining symbol and tolerance, requirement of radiography and hydraulic tests, painting details, elevation, side view, plan, skin section and blow-up view for clarity.

h) All drawings shall be prepared as per BHEL's title block and shall bear BHEL's drawing No. Documents marked for submission to BHEL's Customer shall also bear BHEL's Customer's drawing No.

i) Schedule of drawings submissions, comment incorporations & approval shall be as stipulated in the specifications. The successful bidder shall depute his design personnel to BHEL's/ Customer's/ Consultant's office for across the table resolution of issues and to get documents approved in the stipulated time.

j) Bidder to follow the following the drawing submission schedule.

k) 1st submission of drawings from date of LOI as per the submission schedule.

l) Every revised submission incorporating comments – within 7 days.

m) Bidder to submit revised drawings complete in all respects incorporating all comments.

n) The primary drawings are to be considered as the basic engineering drawings.

Any incomplete drawing submitted shall be treated as non-submission with delays attributable to bidder's account. For any clarification/ discussion required to complete the drawings, the bidder shall depute his personal to BHEL for across the table discussions/ finalizations/ submissions of drawings.

SIGNATURE: \_\_\_\_\_  
 NAME : \_\_\_\_\_

COMPANY SEAL