



PESDESP-001- 2A Rev.00		<b>BHARAT HEVY ELECTRICALS LIMITED</b> <b>PROJECT ENGINEERING &amp; SYSTEMS DIVISION</b> HYDERABAD, INDIA	Doc. No: <b>PY-51618</b>
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**SPECIFICATION FOR PRE-BID TIE UP**  
**WITH**  
**Solid Waste Grate Fired Boiler Manufacturer**  
**[ “Qualified Waste to Energy Plant Equipment Manufacturer (QWEPM)” ]**  
  
**TENDER: NTPC EDMC CIRCULAR ECONOMY VILLAGE**  
**POWER BLOCK PACKAGE OF 600 TPD (2X300TPD)**  
**INTEGRATED WASTE to ENERGY PROJECT**  
**AT GHONDA GUJRAN, DELHI, INDIA**

<b>Revisions:</b>	<b>Prepared by :</b>	<b>Checked by :</b>	<b>Approved by :</b>	<b>Date :</b>
Refer to record of revisions	SBN	BHK	KS	18.02.2020

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## 1. Introduction:

M/s National Thermal Power Corporation (NTPC), India intends to install a Waste to Energy Plant (WtE Plant) having waste disposal (incineration) capacity of 600 Tons Per Day (TPD). The plant shall be installed at Ghonda-Gujran village of Seelampur Tehsil of North East Delhi District, India and shall be disposing the waste i.e. MSW obtained from EDMC (East Delhi Municipal Corporation). Employer shall provide Refuse Derived Fuel (RDF). RDF consists largely of combustible components of waste such as plastics, wood, pulp or organic waste in the form of fluff.

**Bharat Heavy Electricals Limited (BHEL), India ([www.bhel.com](http://www.bhel.com)) intends to participate as an “Indian EPC/ R&M Company” in above tender.**

BHEL is in the process of identifying suitable **manufacturer & supplier of solid waste grate fired boiler and flue gas cleaning system** as “Qualified Waste to Energy Plant Equipment Manufacturer (QWEPM)” to have pre-bid tie up and quote jointly for NTPC EDMC Power Block Package 600 TPD **(2X300TPD) Integrated Waste to Energy (WtE) Project.**

As per NTPC Tender requirements, BHEL (EPC Contractor) and bidder will execute a Deed of Joint Undertaking (DJU) in which the executants of DJU shall be jointly and severally liable to the Employer (NTPC) for successful performance of contract as per format enclosed in the bidding documents. The DJU shall be submitted by BHEL to NTPC along with techno-commercial bid, failing which the bids shall be disqualified and rejected.


In case of award of contract to BHEL by NTPC, **Bidder (ie., QWEPM) will be required to furnish a bank guarantee for an amount of 2.5% of total contract price awarded on BHEL by NTPC.**

In the event, BHEL is adjudged as successful EPC Bidder and awarded the “Project” by NTPC, BHEL will in turn place an order on selected “Qualified Waste to Energy Plant Equipment Manufacturer (QWEPM)” for the identified scope.

## 2. Intent of Specification:

The intent of this specification is to elaborate the scope of Bidder (ie., bidder) for the **Boiler of proposed 2x300 TPD Waste to Energy Plant**. The Bidder shall conform to all technical specification requirement set forth in the tender documents attached and further agrees to abide by it within the execution schedule.

Bidder shall be responsible for design & supply of all equipment of the process as per the scope document enclosed, provide performance guarantee, provide technical support on overall Waste-to-Energy (WtE)

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plant design and provide technical assistance during execution of the project and till expiry of operation and maintenance period for the said project.

The techno commercial terms agreed during pre-bid tie up shall be valid upto expiry of Operation and Maintenance period of BHEL for the plant as per contractual agreement with M/s NTPC.

### 3. Scope of work [Supply & Services] of Bidder:

The scope of work of bidder indicating **Supply & Services** is listed below:-

#### A. **Scope during Pre bid stage:**

**A.1 Bidder shall prepare and submit offer** for the Solid Waste Grate fired boiler and flue gas cleaning system with the identified scope as per scope division document (Attached as **Annexure-1**) to BHEL for consolidation of total offer for the entire plant.

#### **A.2 Pre-Bid Engineering services by Bidder (During bid submission by BHEL to NTPC):**

- i. Bidder shall support BHEL for Pre-bid engineering of the Waste to Energy (WtE) plant **by providing technical inputs** for:
  - a) Design of Balance of Plant (BoP) Equipment/ Systems like Steam Turbine, Air cooled Condenser, DM Plant, Leachate Treatment Plant (if applicable), Compressed Air system, AC Ventilation system, Leachate disposal system (if applicable), Chimney other equipment / system under the scope of BHEL
  - b) Electrical Load List (Normal, Emergency, UPS etc)
  - c) DCS (I/O List for Control)
  - d) Civil works
  - e) Utility requirements data (such as Instrument Air, Plant Air, Nitrogen, Service Water, Potable Water, Auxiliary Cooling Water, Make-up water etc.)
  - f) Erection and commissioning
  - g) O&M for two years

Based on the above, preparation of detailed BOQ and cost estimation for Balance of Plant (BoP) portion will be done by BHEL.

- ii. Bidder shall support BHEL for Technical closure of the bid with NTPC.

**A.3** Bidder shall execute a Deed of Joint Undertaking [DJU] along with BHEL in the prescribed format (attached as **Annexure-2**) which is to be submitted to NTPC along with technical offer. Scope & responsibilities mentioned in DJU shall be adhered-to by bidder without any deviation.



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**B. Scope of Bidder during Project Execution:**


- i. Design, Engineering, Manufacturing, Supply, Testing, Packing and Forwarding, Transportation of Grate fired boiler & Flue gas cleaning system covering following major equipment :
  - a) Complete grate fired boiler with combustion control and monitoring system
  - b) All boiler auxiliaries including Grab Crane, FD Fans, ID Fans (or PA fans, SA fans as applicable), Air Pre-heater, air & flue gas duct up to inlet of stack, soot blowers, etc. (Supply of Stack is in BHEL's scope)
  - c) All systems / equipment required for flue gas treatment with fabric filter / ESP for meeting the emission norms as per requirement specified elsewhere in the specification.
  - d) Complete bottom and fly ash handling system
  - e) Boiler blow down system
  - f) HP Chemical dosing system for boiler drum
  - g) All consumables like lube oil, Chemicals for flue gas treatment, Activated Carbon etc. in entire Boiler Island.
  - h) Dedicated control system for boiler along with necessary field instrumentation, cables up to & including Junction Box (JB)
  - i) Surface Preparation and Painting of supplied items.
- ii. Engineering support by bidder by furnishing necessary inputs for design / sizing / procurement of the following equipment / systems by BHEL :
  - a) Steam Turbine, Air cooled Condenser, DM Plant, Compressed Air system, Chimney, HVAC system, other equipment / system under the scope of BHEL
  - b) Municipal / Industrial solid waste handling / maintenance facility in the waste pit
  - c) Odour control system
  - d) Leachate collection, treatment and disposal system (if applicable)
  - e) Effluent Treatment Plant / System
  - f) Steam & Water Analyzers System (SWAS)
  - g) Boiler feedwater pumps (BFPs) and Feed control stations for boiler
  - h) Fire Protection system for boiler area
  - i) Utilities (Fuel, Plant Air, Instrument Air, Service Water, Potable water, DM water etc)\
  - j) Any other system / equipment in the scope of BHEL
- iii. **Site Supervision of Civil works** of Boiler & Auxiliaries (Civil Engineering & Civil execution is in the scope of BHEL. Necessary civil inputs and loading data to be provided by the Bidder)
- iv. **Site Supervision of Erection & Commissioning [E&C]** of Boiler & Auxiliaries (E&C is in the scope of BHEL. Necessary erection inputs to be provided by the boiler Bidder)

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- v. Trial run, site Performance Guarantee (PG) test of boiler & auxiliaries supplied by Bidder
- vi. Training on boiler operation to BHEL staff & NTPC staff
- vii. O&M for boiler & auxiliaries for period of 2 years from the date of successful completion of facilities of total contract.
- viii. Supply of commissioning spares, essential (mandatory) spares, O&M spares for boiler & its auxiliaries.
- ix. Providing support and all necessary documentation for obtaining necessary statutory approvals by BHEL, such as Indian Boiler Regulations (IBR).
- x. Resolving punch list / contract closing issues pertaining to systems / equipment supplied by Bidder.
- xi. Any equipment / system related to Boiler & auxiliaries, feed to the plant, flue gas treatment / cleaning system which is required for completion of project as per NTPC specification but is not covered in Scope Matrix between BHEL and Bidder, shall also be in scope of Bidder.

#### **4. Services provided by BHEL to BIDDER (Boiler OEM):**

- A. BHEL will provide the following data, systems / equipment / facilities
  - i. Project information
  - ii. Technical requirements of Boiler (scope of supply, guarantee parameters along with LD and other condition, plant layout etc. required for boiler design)
  - iii. BHEL will provide following services / utilities at one point near Boiler  
(further distribution within boiler area shall be by BIDDER):
    - a) RDF at Waste Reception Pit
    - b) Start-up fuel (BioCNG – Secondary & Flame stabilization / LDO-back up to secondary fuel)
    - c) DM water
    - d) Feed water
    - e) Cooling water [supply & return]
    - f) Instrument Air
    - g) Service Air
    - h) Nitrogen, if required
    - i) Service Water
    - j) Potable water
  - iv. Fire Protection system for boiler area
  - v. Ventilation & Air-conditioning system for boiler area, if necessary
  - vi. Complete electrical systems for boiler, such as MCC, DC power, cables,
  - vii. Cable trays, earthing, illumination.

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- viii. Instrumentation cables from boiler field JBs to boiler control system in control room
- ix. Interfacing of boiler control system with plant control system
- x. Civil Engineering & execution of civil works for the boiler and flue gas treatment system
- xi. E&C of the boiler and flue gas treatment system

**5. Scope matrix between BHEL and Bidder:**

Refer Annexure-1.

**6. FUNCTIONAL GUARANTEES:-**


- A. Bidder to prove the Functional Guarantees like Boiler efficiency, Auxiliary Power, Availability etc as per the requirements specified in Annexure-3 (Bid specification documents)

**7. TECHNICAL SPECIFICATION:**

- A. **Mechanical**  
Respective area of NTPC Specification Doc. No. CS-8012-001-9
- B. **Electrical:**  
Respective area of NTPC Specification Doc. No. CS-8012-001-9
- C. **Control & Instrumentation:**  
Respective area of NTPC Specification Doc. No. CS-8012-001-9  
(Refer Annexure-3 for more details)

**8. Qualification requirement for Bidder:**

S.No.	Subject	Criteria	Supporting Documents required for qualifying the criteria
A.	Bidder requirement	The Bidder should have designed, engineered, supplied, erected / supervised erection, commissioned / supervised commissioning of at least <b>two (02) numbers of waste to energy plants</b> employing Grate Combustion System and Flue Gas Treatment System, having rated waste incineration capacity of <b>at least 250 metric tonnes per day per stream</b> or higher, anywhere in the world. Both reference waste to energy plants should have been in successful operation for a <b>period of not less than two (2) years</b> prior to the date of techno commercial bid opening.  <b>AND</b>	<ul style="list-style-type: none"> <li>-PO copy with issue date indicating the capacity of the plant, scope of supply</li> <li>- Date of handing over /commissioning certificate signed by customer.</li> <li>-Certificate indicating successful Operation &amp; Maintenance of WtE plant for a period of minimum 02 years from the date of handing over</li> <li>- Performance guarantees targeted and achieved duly signed by customer</li> </ul> <p>The Bidder shall submit above documents as evidence signed by end client, not below the rank of</p>

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		The Bidder should have designed, engineered, manufactured/ got manufactured <b>at least Grate Combustion System or Waste Heat Recovery Steam Generator (WHRSG)</b> or both in all <b>two (2) reference waste to energy plants</b> stipulated above. The bidder shall offer only the type of Grate Combustion System or Waste Heat Recovery Steam Generator (WHRSG) or both for which it is qualified.	Executive Engineer/ Plant-in-charge.
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**Offers of the bidders meeting the above qualification criteria will ONLY be considered by BHEL.**

**9. Quality & Inspection:**

As per Annexure-3.

**10. PROTECTION FOR SHOP FABRICATED ITEMS:**

As per Annexure-3.

**11. PACKING AND TRANSPORTATION:**


As per Annexure-3.

**12. VENDOR DOCUMENTATION:**

**A. Pre-Bid Stage:**

Following documents are to be furnished by Bidder to BHEL:

- i. Civil inputs (Load Details of various component and structure of Boiler)
- ii. Electrical Load List (Normal, Emergency, UPS etc.)
- iii. Overall Process Flow Diagrams / P&IDs
- iv. Process write up
- v. Control/ Operation/ Design Philosophy
- vi. Functional guarantees
- vii. Data sheet for Process
- viii. PLC system configuration with Technical Literature & PLC Requirements
- ix. List of Special Tools and tackles
- x. Sub-contractor proposed by Bidder

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- xi. Commissioning /start-up spares
- xii. Milestone schedule

**B. During Project Execution:**

Documents to be submitted by Technology Provider after receipt of order:

Sl. No	DRG/DOC. NAME	Date of Submission
<b>MECHANICAL</b>		
M.01	P&IDs	2 weeks from PO
M.02	System write-up (Including Control Philosophy)	2 weeks from PO
M.03	Boiler Performance data	4 weeks from PO
M.04	Design Basis and Sizing Criteria of Boiler Plant including Process Calculations	2 weeks from PO
M.05	List of Utilities alongwith quantity	3 weeks from PO
M.06	Auxiliary power consumption of Boiler and its auxiliaries	5 weeks from PO
M.07	Equipment Layout	3 weeks from PO
M.08	Equipment list and load details	2 weeks from PO
M.09	Pipe Schedule	3 weeks from PO
M.10	Valve Schedule and valve specification	3 weeks from PO
M.11	List of Terminal Points	2 weeks from PO
M.12	Data sheets of Boiler and its auxiliaries	3 weeks from PO
M.13	GA of PA/ SA Fans, ID Fans, FD Fans, as applicable	3 weeks from PO
M.14	GA of Flue Gas Cleaning Equipment	3 weeks from PO
M.15	Datasheets of Flue gas cleaning equipment	3 weeks from PO
M.16	Piping & Ducting layouts	4 weeks from PO
M.17	Forces and moments of piping at terminal point for steam & feed water lines	4 weeks from PO
<b>ELECTRICAL</b>		
E.01	Electrical Load List with normal and emergency power requirement	2 weeks from PO
<b>INSTRUMENTATION</b>		
I.01	Instrument Index with BOQ, range, set points etc.,	2 weeks from PO
I.02	Instrument Hook up drawings	4 weeks from PO
I.03	Technical data sheet of Instruments	3 weeks from PO
I.04	PLC Configuration Diagram, GA & Wiring diagram	4 weeks from PO
I.05	PLC I/O List	5 weeks from PO
I.06	PLC Logic Diagram	5 weeks from PO



I.07	PLC Control Room Layout	5 weeks from PO
I.08	PLC Power Supply AC Inputs requirement	5 weeks from PO
I.09	PLC interconnection diagrams	5 weeks from PO
<b>CIVIL</b>		
C.01	Civil input drawings for all buildings	4 weeks from PO
C.02	Civil input drawings for all including Tanks, pits and chambers etc.	4 weeks from PO
C.03	Foundation details of all equipment (Boiler and auxiliaries)	4 weeks from PO
C.04	Foundation details of structures & pipe racks within boiler area	4 weeks from PO
<b>MISCELLANEOUS</b>		
MIS.01	List of Commissioning spares	5 weeks from PO
MIS.02	List of Recommended spares	5 weeks from PO
MIS.03	Consumables list (Chemicals, oil, grease etc.)	5 weeks from PO
MIS.04	O&M manuals	5 weeks from PO
MIS.05	Performance Test Procedure	5 weeks from PO
MIS.06	Any other document / drawing necessary for execution of the project / submission to NTPC	

**Note:** The date of first submission is indicated above. Technology Provider shall submit all subsequent revision within 5 working days of comments by BHEL.

**C. The O&M manuals shall contain the following details as minimum in addition to those indicated in the above table:-**

- i. Identification details of the equipment like BHEL Purchase Order (PO) No., Sub Vendor's Sl. No., Sub -Vendors contact address with telephone, fax details
- ii. Description of the equipment
- iii. Final Data sheets and Drawings of the equipment as per the list mentioned in this specification
- iv. Recommended 2 years operational spares
- v. Test reports

**D. The erection documentation shall consist of**

- i. All drawings/documents
- ii. All such drawings/documents, not submitted for review, but essential for erection/ commissioning, e.g. assembly drawings, etc.
- iii. Master document list
- iv. Site dispatchable Bill of Materials (BoM)



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**13. Performance Guarantees**


The guarantees shall form contract guarantees to be demonstrated through an approved performance test after the completion of the plant. The schedule shall be finalized during the detail engineering stage.

**14. Terminal/ Interface points between Technology Provider and BHEL:**

Sl.No.	Equipment	Terminal Point
<b>Mechanical</b>		
1.	RDF (Primary fuel)	At Waste Reception Pit
2.	Start-up fuel	At Boiler front column for each boiler
3.	Cooling water, Instrument Air, Nitrogen, Service Air, Potable Water, Service Water	At Boiler front column for each boiler
4.	Ash	At Bunker/ Pit Outlet
5.	Feed Water	At inlet of Feed check valve (Feed check valve by BIDDER)
6.	Spray water to Desuperheater / Attemperator	At Boiler front column for each boiler
7.	Boiler filling line	At Boiler front column for each boiler
8.	Boiler hydraulic testing	At Boiler front column for each boiler
9.	Steam	At outlet of Main Steam Stop Valve
10.	Flue gas	At inlet of Chimney /Stack, including mating flange by BIDDER
11.	Safety valve exhausts & vents	To atmosphere at 1.0 m above boiler roof
12.	Drains	To respective drain vessels
13.	Sampling lines	Upto sample coolers
<b>Electrical</b>		
1	Power Supply 415 V	At Consumption points (Motors/ VFDs etc.) of Bidder loads
<b>Control &amp; Instrumentation</b>		
1	Power supply to PLC	At one (1) point in PLC panel incomer. Further distribution to all associated equipment including HMI, Printer etc. shall be taken care by Technology Provider.
2	I & C cables	At the PLC (Supply Cables upto PLC panel will be by BHEL)

**15. Information to be submitted along with offer**

- A. Filled in Annexures (Key Information, Recommended spares, special tools & tackles and Deviations)
- B. Checklist
- C. Unpriced price-bid format

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**ANNEXURE – 4**


**KEY INFORMATION**

1.	Name of the Bidding Company	
2.	Registered in (mention the name of the Country)	
3.	Name, designation, telex & telephone number and postal address of responsible officer of Technology Provider to whom all reference shall be made for expeditious co-ordination.	
4.	Name, designation, telex & telephone number and postal address of responsible officer of Indian Agent.	
5.	Bidder proposal number	
6.	Bidder proposal date	
7.	Validity of offer, counted from the date of opening of bid	
8.	Guaranteed completion period, counted from date of issuance of LOI/TOI	
9.	Confirm that Scope of supply and services are exactly as per specification requirement	Yes/No
10.	Confirm Technical Compliance with Specification	Yes/No
11.	Confirm that Guarantees are as per Job Specification	Yes/No
12.	Confirm that List of Recommended Spares has been furnished as per Annexure-5	Yes/No
13.	Confirm that List of Special Tools & Tackles has been furnished as per Annexure-6	Yes/No
14.	Confirm that deviations ,if applicable, have been furnished as per Annexure-7	Yes/No

Signature of BIDDER's

Authorized representative

Date.....

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**ANNEXURE – 5**


**LIST OF RECOMMENDED / ESSENTIAL SPARE PARTS**

Bidder shall tabulate in the proforma below list of all spare parts as recommended by the respective manufacturer for regular, reliable operation. In case the Technology Provider has to add any other relevant information, the same shall be indicated herein. Continuation sheets of same format may be used as per Technology Provider's requirements.

Sl. No.	Description	Quantity	Unit Price	Total Price	Delivery Period	Remarks
<b>a</b>						
<b>b</b>						
<b>c</b>						
<b>d</b>						

Signature of BIDDER's  
Authorized representative .....

Date.....

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**ANNEXURE – 6**

**LIST OF SPECIAL TOOLS AND TACKLES**


Bidder shall tabulate in the proforma below list of all special tools and tackles as recommended by the respective manufacturer for regular, reliable operation. In case the Bidder has to add any other relevant information, the same shall be indicated herein. Continuation sheets of same format may be used as per Technology Provider's requirements.

Sl.No.	Description	Quantity	Remarks
<b>a</b>			
<b>b</b>			
<b>c</b>			
<b>d</b>			

Signature of Technology Provider's

Authorized representative .....

Date.....

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**ANNEXURE – 7**

**LIST OF DEVIATIONS FROM SPECIFICATION**


If the proposal submitted has got any deviations from the technical stipulations in the bidding document, the Technology Provider shall tabulate below the full particulars of such deviations and shall sign below. Additional sheets may be enclosed, if necessary. Deviation is to be furnished with mention of specific clause numbers. Technical and commercial deviations to scope of supply and services, shall be indicated separately. Technology Providers shall bring put only those deviations which are impractical to meet (or) not advisable.

Sl.No.	Vol. No./ Sec. No.	Page No. / Cl.No.	Subject	Requirement as per Specification	Deviation by BIDDER

We confirm that all the deviations/exceptions to the Technical Specification PESDTEND-041, Job Specification and enclosures including reference documents attached are listed in this Annexure only. No other deviations or exceptions even if mentioned elsewhere shall be considered for any technical/ commercial evaluation or for ordering.

Signature of BIDDER's  
Authorized representative.....


Date .....

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## 1.0 CHECK LIST

BIDDER to note that Check List shall be completely filled and the data required in-line with Check List shall be submitted along with their Offer to enable Purchaser to evaluate the offer submitted.


<b>S.No.</b>	<b><u>Description</u></b>	<b>Enclosed or [Yes/No]</b>	<b>Remarks/ Comments by Technology Provider</b>
1	<b>BIDDER to confirm compliance with spec. PESDTEND-041</b> and its annexure without any deviations.		
2	BIDDER has already raised pre-bid queries (if any) on Purchase specification.		
3	BIDDER shall submit completely filled following Annexures enclosed with Technical Purchase Specification PESDTEND-041 along with their offer <b>Annexure-4:</b> Key Information <b>Annexure-5:</b> List of Recommended Spare Parts <b>Annexure-6:</b> List of Special Tools and Tackles <b>Annexure-7:</b> List of Deviations from specification		
4	Tentative Electrical Load List is enclosed with offer.		
5	BIDDER shall furnish the list of Erection and commissioning spares along with their offer.		
6	BIDDER to fill Deviation list (Refer Annexure-7 of PESDTEND-041). Only those deviation indicated in this list will be considered during technical evaluation of offer. Technology Provider to indicate the deviations which are impractical.		
7	All other requirements except the deviations brought out under deviation list, have been taken into consideration in the offer.		
8	BIDDER has submitted unpriced "Price bid format" with "Quoted" mentioned against price for each line item of Price Bid Format		

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**PRICE SCHEDULE**

Sl. No.	Description	Qty.	Unit Price (INR)	Total Price (INR)
<b>1.0</b>	<b>DESIGN, ENGINEERING, MANUFACTURE, SUPPLY, SUPERVISION OF ERECTION &amp; COMMISSIONING</b>			
<b>1.1</b>	<b>Design, Engineering, Manufacture, Supply of the Grate type Boilers and Auxiliaries (2x300TPD) &amp; Flue gas treatment system</b>			
1.1.1	300 TPD Boilers (2 Nos.) and associated auxiliaries	1 set		
1.1.2	Flue Gas Treatment / Cleaning System for offered boilers	1 set		
1.1.3	PLC system for Boiler Controls	1 set		
1.1.4	Special Tools & Tackles for supplied items as per the specification	1 set		
1.1.5	<b>Commissioning and erection spares</b> [Item wise list of commissioning and erection spares with unit rate and quantity for supply items listed under Sl. No. 1.1 above to be furnished by Technology Provider)	1 set		
<b>1.2</b>	<b>Engineering services</b> for the design of the WtE plant equipment / system as per the specification.	<b>1 Set</b>		
<b>1.3</b>	<b>Supervision of Civil Works, Erection and commissioning including conducting performance guarantee test</b> of the plant as per the specification.			
1.3.1	Visit of Service Engineer including Travel Expenses, Boarding, Lodging & Local Travel for the supervision of erection and commissioning of the WtE Plant. 8 man-days per visit	4 visits		
<b>2.0</b>	<b>O&amp;M Spares &amp; Services</b>			
2.1	O&M Spares & Services for BIDDER supplied equipment for 2 years	As required		
	<b>TOTAL (1.0 + 2.0) for L1 Evaluation</b>			



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**NOTES:-**

1. BIDDER to quote strictly as per BHEL's NIT requirements.
2. BIDDER to note that this is a LUMP SUM Turn-Key Order. Any additional claim after placement of order will not be entertained under any circumstances.
3. BIDDER to quote the base rates only. All Applicable taxes and duties shall be indicated separately for the Supply Portion and Erection supervision & Commissioning Portion.
4. BIDDER shall also submit unpriced copy of the Price-Bid Format with "Quoted" against each line item of the format along with the technical offer.
5. BIDDER to quote strictly in the price bid format with line wise itemized price and quantity, failing which the Technology Provider's offer shall be liable for rejection.
6. For the purpose of tender evaluation, a total of 8 man-days each for 4 visits have been considered. However, either or both of the number of man days or no. of visits may change on either side based on the actual site requirement.
7. Bidders need to quote the basic rates only against each item. They may indicate applicable taxes (GST) separately.
8. Rate for supply items may be quoted inclusive of packing & forwarding charges, freight & transit insurance but exclusive of taxes (GST)
9. Payment of GST will be made as per GCC & SCC document.

Signature of BIDDER's

Authorized representative .....

Date.....

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**LIST OF ATTACHMENTS**

Sl No.	Description	Drg. / Doc. No.	Rev. No.
1.	SCOPE MATRIX BETWEEN BHEL & Bidder	Annexure - 1	00
2.	Format for Deed of Joint Understanding (DJU)	Annexure - 2	00
3.	Technical Specification of NTPC for the WtE plant	Annexure - 3	00
4.	Key information	Annexure - 4	00
5.	List of Recommended Spares	Annexure - 5	00
6.	List of Special Tools & Tackles	Annexure – 6	00
7.	Deviations from Specification	Annexure – 7	00

RECORD OF REVISIONS				
Rev. No.	Date	Revision Details	Revised By	Approved By
00	18.02.2020	First Issue	SBN	BHK