

BHARAT HEAVY ELECTRICALS LIMITED

TIRUCHIRAPPALLI-620 014

Fuel Systems/PE(FB)



Technical Purchase Specification for

DILUTION AIR HEATER (STEAM) AND ACCESSORIES

Specification No.: **TSR:025**

Revision No.: 00

<i>Rev. No.</i>	<i>Rev. Date</i>	<i>Clause</i>	<i>Description</i>	<i>Chd. & Appd.</i>
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	<i>Name</i>	<i>Signature</i>	<i>Date</i>
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**SPECIFICATION FOR
DILUTION AIR HEATER (STEAM)
AND ACCESSORIES**

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1.0 Technical Specification

1.1 Scope

Supply of Steam Coil Air Pre-Heaters(SCAPH) used for heating up ambient air drawn from dilution air blowers to a specified temperature.

This specification defines the minimum requirements for the design, manufacture, testing, preparation for shipment and delivery of materials, engineering documentation, technical direction for construction/installation, and startup service for this equipment.

2.0 Equipment, Materials and Services by Vendor

Vendor's scope of supply includes, but is not necessarily limited to:

- Two (2) 100% SCAPH assemblies with frame, heater supports and fixing arrangement to install SCAPH on steel supporting structure.
- Diffusion plates, baffles or vanes required to achieve an even distribution of air shall be included. The Supplier will provide tube design calculations to demonstrate that the selected tube thickness meets code and service requirements.
- Inlet and outlet air side transitions (refer datasheet clause 4.15 for air inlet & outlet pipe size) shall also be included for direct flanged connection to duct (provided by others). The flange shall be minimum ½" plate thickness, with bolt pattern based on ANSI 150# standard flange.
- Steam inlet and condensate outlet connections shall be supplied along with mating flanges & fasteners to ANSI B16.5 class 300 lbs.
- Vendor shall furnish all equipment and services necessary to connect the equipment to BHEL's system.
- Special tools required. For example, if a special lifting device is required during shop fabrication, the device must be available on the construction site for installing that piece of equipment.
- Suitable lifting arrangement shall be provided.
- Vendor shall provide tube design calculations to demonstrate that the **selected tube thickness meets code and service requirements**.
- Pressure drop calculations & pressure drop curves if any.

3.0 Equipment, Materials and Services by Others

The scope of supply by others shall be:

- Unloading and storage at the job site.
- Installation.
- Utility, systems piping.
- Monorails and hoists.
- Process and utility piping external to Vendors' supplied equipment.
- Structural support steel.



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- Electrical wiring, conduits, trays, push buttons and starters external to Vendor supplied
- skid-mounted equipment.
- DCS interface and remote alarms.
- Insulation of heater

4.0 Design

- a. Materials and equipment must be **new, and of proven** design.
- b. The steam coil will include a **series of fin tube coils, which will heat the incoming** air to the specified temperature using auxiliary steam.
- c. Heater is to be designed for **maximum heat duty condition. Only latent heat portion** of steam shall be considered.
- d. **Materials** containing asbestos, PCBs, mercury, lead-based paint or any other hazardous materials are **not allowed**.
- e. The coils shall be designed to **drain completely** when the coil is not in use. No condensate will be allowed to remain in any portion of the coils. Devices are required to prevent a vacuum from developing when the coils are drained.
- f. Vendor shall supply an air tight secondary frame (casing) from which the individual core sections can be removed in **drawer type fashion from service**. The entire frame assembly will be designed to be airtight. **Legs shall be provided for installation on a flat and even surface**. Height to Inlet / outlet centerline shall be given at a later date.
- g. The heaters shall be **encased in a channel frame support with sheet metal** cladding and insulation. The secondary casing shall be capable of **pressures $\pm$ 660 mmWc at 67% yield**.
- h. Fin spacing on the coils shall be no greater than **nine (9) fins per inch**. The **coil materials** shall be **carbon steel Tubes with aluminum fins**. The fins will be **embedded in the tube**.
- i. The tube/fin arrangement will be robust design for heavy duty continuous operation.
- j. The SCAPHs will have a **minimum of 10% excess of calculated effective surface area** to allow for fouling.
- k. **One extra coil station for future** installation of a coil shall be included.
- l. Vendor shall **provide 4" capped drains** to allow drainage of high pressure wash –water.
- m. The **coils shall be designed**, fabricated and tested in accordance with the latest provisions of the **ASME Code, Section VIII, Division 1**, Unfired Pressure Vessels and shall bear the proper Code Stamp. Materials shall also be in accordance with the latest provisions of the ASME Code, Section II, Part A, Materials Specifications, and Steam Coil shall be registered with the National Board.
- n. Vendor shall supply Manufacturer's Data Report in accordance with the ASME Code, Section VIII, Division 1.
- o. Vendor must provide Material Safety Data Sheets (MSDS) for all coatings, paints, lubricants, preservatives, or chemicals that will be brought onto the jobsite by Vendor for whatever reason. The MSDS must be delivered before equipment is delivered on the jobsite.

5.0 Noise Requirements

Vendor shall provide silencers and/or acoustic insulation for equipment to operate with a maximum noise emission level of 85 dBA at 1M from source.

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Measurement to be made using the sound measuring criteria specified in Section 1910.95, Occupational Noise Exposure of Part 1910, Occupational Safety and Health Standards of the Department of Labor, published in The Central Register, Vol. 37, No. 202, Part II, dated October 18, 1972 and any current revisions.

6.0 Operating Sequences / Duration

Design operation shall be 24 hours per day, 365 days per year. Coil shall be located outdoors at an operating coal plant. Steam supply control valve position is modulated by the owner's control system to control air outlet temperature. Assume 20 PSIG backpressure on condensate outlet flange.

7.0 Surface Preparation and Painting

The equipment constructed of carbon steel shall be surface prepped per SSPC and painted as per Vendor's standard on all exposed surfaces to protect against rust and corrosion during the shipping, installation and operation of the equipment (primer and finish paint).

Vendor shall finish paint all carbon steel surfaces not to be insulated.

Materials not subject to rusting shall be provided unpainted.

8.0 Performance Guarantees

The equipment provided by vendor shall operate in accordance with the performance data provided in the datasheet. Should it be determined during this period that the equipment has failed, or is failing to achieve specified performance, Vendor shall be obligated, as a condition of warranty, to take whatever steps are necessary and/or required by BHEL to correct the non-performance, all at Vendors cost.

The equipment shall meet all applicable code requirements so that all required inspections are passed and permits obtained. BHEL and/or Owner may conduct Field tests during start up and after commercial operation of the installation for a period determined by the terms and conditions of purchase.

9.0 Quality Assurance and Quality Control (QA & QC)

9.1 Quality Control

The supplier must include in the supply a proven quality control and quality assurance system that will ensure the quality of the SCAPH. The quality control system must follow ISO 9001 guidelines.

9.2 Quality assurance

The supplier shall be responsible for providing the necessary Quality Assurance and Quality Control procedures, maintaining continual surveillance and inspection activities during the entire periods of the Fabrication and Testing. Inspections report and tests to be provided to the BHEL during the fabrication period and before shipment of the SCAPH.

Vendor quality plan shall be submitted for BHEL approval.

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10.0 Reference Documents

At a minimum, all work performed and materials provided by Vendor must be in accordance with applicable International Codes & regulations.

The equipment will comply with the applicable portions of the following Codes and Standards. The applicable revision of each of these Codes and Standards will be the current edition with addenda or the edition adopted by the controlling jurisdiction at the time of the purchase order.

In the event of a conflict between these documents and the specification, Vendor shall submit a written request for an interpretation by BHEL. In general, the most stringent requirement shall govern.

- American National Standard Institute (ANSI)
- American Society of Testing and Materials (ASTM)
- American Society of Mechanical Engineers (ASME)
- Institute of Electrical and Electronic Engineers (IEEE)
- Insulated Power Cable Engineers Association (IPCEA)
- International Organization for Standardization (ISO)
- National Electrical Manufacturer's Association (NEMA)
- National Fire Protection Agency (NFPA)

11.0 Field Service

At the request of the BHEL, vendor shall furnish a Field Engineer to provide technical assistance during construction/installation and commissioning. BHEL will provide Vendor sufficient notice prior to the site requirement for field service.

Vendor stipulations that require a field service engineer or technician, such as inspection prior to equipment start up, shall be indicated in writing.

12.0 Spare Parts

Vendor shall provide a list of ***recommended spare parts including start-up and commissioning spares*** and special tools, with and without pricing, and a schedule of part replacements based on the operation and service conditions specified.

13.0 Packing

- Item shall be packed in wooden boxes with water proof under cover.
- Packing and struts shall be used to arrest rolling of items and to avoid transit damage.
- All openings (Fluid, Pneumatic & Electric) shall be firmly capped.



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14.0 Guarantee & Warranty

Seller shall guarantee for trouble free operation and against defects of quality, workmanship of the product for a period of **24 months from the date of supply or 18 months from date of commissioning**, whichever is earlier.

15.0 General

- The language used shall be ***“English only” in offer***, O & M manual, Labels, Drawings etc.
- For equipment and other special requirements refer Appendix-A (Design & Record sheet) to this specification.

16. DATASHEET FOR DILUTION AIR HEATER (STEAM)

BHEL Material Code:L17271SR33001001
Enquiry No.

TAG NO. SCAPH A & SCAPH B

	DESCRIPTION	BHEL REQUIREMENT	Vendor Confirmation
1.0	General Information		
1.1	Equipment Name:	SCAPH	
1.2	Quantity:	2 (one working, one standby)	
1.3	Tag Number(s):	SCAPH - 1A & SCAPH - 1B	
1.4	P&ID Number:	0-SR-056-00057	
1.5	Indoor/Outdoor:	Outdoor	
2.0	Arrangement		
2.1	Service Type (Boiler/SCR/Other)	SCR	
2.2	Type of Heater (Steam, Water, Electric)	Steam	
2.3	Non-Freeze(Steam / Water Only)	No	
2.4	Heater Orientation (Airflow Vertical Up/Down, Horizontal)	Horizontal	
2.5	Coil Connections (One End, Both Ends)	Vendor to specify.	
2.6	Core Removal (One Side(Conn./Opp.End), Each Side, Up or Down)	Vendor to specify.	
2.7	Coil Handling (Similar, Opposite Hand)	Vendor to specify.	
3.0	Design Criteria		
3.1	Heater Location (Indoor, Outdoors)	Outdoor	
3.2	Maximum Airside Pressure Drop Allowed	50 mmWc	
3.3	Water Quality (Treated / Untreated)	N/A	
3.4	Volts / Phase / Frequency	N/A	
3.5	Distance from Dilution Air fan to heater	10 meter (approx)	
3.6	Air temperature Control included	N/A	
3.7	Maximum Temperature Control Deadband	N/A	
3.8	Condensate Collection System Backpressure (Downstream of Steam Traps)	20 PSIG / 1.38 bar (Est)	
3.9	Empty Space for Future Elements / Coils	One Bay	
4.0	Construction		
4.1	Secondary Airtight Casing	Yes	
4.2	Inlet Air Casing Connection Type/Size	Flanged.	
4.3	Outlet Air Casing Connection Type/Size	Flanged.	
4.4	Inside Dimensions or Diameter	Vendor to specify.	
4.5	Wall Thickness	Vendor to specify.	
4.6	Material	Vendor to specify.	
4.7	Size and Number of Bolts	Vendor to specify.	
4.8	Coil/Fin Construction (Embedded, Other)	Vendor to specify.	
4.9	Tube Material	CS.	
4.10	Fin Material	Aluminum.	
4.11	Maximum Number of Fins./Inch	9	
4.12	Coil to Header Connection Type (Brazed, Welded)	Welded.	
4.13	Steam/Water Inlet Conn. Type (Flanged, Screwed, Welded) & Size	Flanged & NB80	
4.14	Steam/Water Outlet Conn. Type (Flanged, Screwed, Welded) 7 Size	Flanged & NB50	
4.15	Air inlet & air outlet pipe size	NB650; OD660, thk 6.4	

16. DATASHEET FOR DILUTION AIR HEATER (STEAM)

BHEL Material Code:L17271SR33001001
Enquiry No.

TAG NO. SCAPH A & SCAPH B

	DESCRIPTION	BHEL REQUIREMENT			Vendor Confirmation
5.0	Design Performance Data	Minimum Temperature Fan Test Block Air Flow	Average Temperature Fan Test Block Air Flow	Max Temperature Fan Test Block Air Flow	
5.1	Steam/Water Pressure at Control Valve Inlet (kg/cm ²)	15	15	15	
5.2	Steam/Water Temperature at Control Valve Inlet (Deg C)	290	290	290	
5.3	Steam Quality (Sat., Superheated)	Superheated	Superheated	Superheated	
5.4	Total Air Flow Entering Each Heater (kg/hr) (1+3 or 2+3, whichever is greater)	18334	16923	15719	
5.5	Dilution Air Flow Entering Each Heater (1)(kg/hr)	18334	16923	15719	
5.6	Lay-up Air Flow Entering Each Heater (2) (kg/hr)	0	0	0	
5.7	Seal Air Flow Entering Each Heater (3) (kg/hr)	0	0	0	
5.8	Total Air Flow Leaving Each Heater (1+3 or 2+3, whichever is greater) (m ³ /hr)	22048	20352	18903	
5.9	Dilution Air Flow Leaving Each Heater (1) (m3/hr)	22048	20352	18903	
5.10	Lay-up Air Flow Leaving Each Heater (2) (m3/hr)	0	0	0	
5.11	Seal Air Flow Leaving Each Heater (3) (m3/hr)	0	0	0	
5.12	Entering Air Temp. to Heater (Deg C)	13	27	50	
5.13	Air Temp. Leaving Heater Required (Deg C)	150	150	150	
5.14	Air Pressure Entering Heater (mmWc)	525	525	525	
5.15	Steam usage	Vendor to Specify	Vendor to Specify	Vendor to Specify	
6.0	Construction				
6.1	Model Number	Vendor to Specify			
6.2	Number of Removable Coils/Cores or Elements	Vendor to Specify			
6.3	Number of Coils / Core or Elements	Vendor to Specify			
6.4	Casing Design Pressure	Vendor to Specify			
6.5	Casing Material/Thickness	Vendor to Specify			
6.6	Coil Inlet Connection Size / Schedule	Vendor to Specify			
6.7	Coil Outlet Connection Size / Sched.	Vendor to Specify			
6.8	Heater Length	Vendor to Specify			
6.9	Heater Width	Vendor to Specify			
6.10	Heater Height	Vendor to Specify			
6.11	Tube / Element Material	Vendor to Specify			
6.12	Fin Material / Thickness / Height	Vendor to Specify			
6.13	Number of Fins/Inch	Vendor to Specify			
6.14	Tube Diameter / Wall Thickness	Vendor to Specify			
6.15	Heater Weight (Empty)	Vendor to Specify			
6.16	Heater Weight (Filled)	Vendor to Specify			
6.17	Core / Element Removal Requirement	Vendor to Specify			
6.18	Coil / Element Orientation and Removal Direction (Up, Down, Horz.)	Vendor to Specify			
6.19	Airflow Diffuser (Yes/No)	Vendor to Specify			
6.20	Diffuser Pressure Loss	Vendor to Specify			
6.21	Embedded Depth of Fin into Tube	Vendor to Specify			
6.22	Effective Heating Surface	Vendor to Specify			
6.23	Design Steam Pressure for Coil	Vendor to Specify			
6.24	Design Steam Temperature for Coil	Vendor to Specify			

16. DATASHEET FOR DILUTION AIR HEATER (STEAM)

BHEL Material Code:L17271SR33001001
Enquiry No.

TAG NO. SCAPH A & SCAPH B

	DESCRIPTION	BHEL REQUIREMENT	Vendor Confirmation
7.0	Design Performance Data		
7.1	Steam Pressure Downstream of Control Valve	Vendor to Specify	
7.2	Guarantee Heater Steam/Water/kW Usage	Vendor to Specify	
7.3	Steam/Water Pressure Drop	Vendor to Specify	
7.4	Air Pressure Leaving Heater	Vendor to Specify	
7.5	Guarantee Air Pressure Drop	Vendor to Specify	
7.6	Air Inlet Velocity	Vendor to Specify	
7.7	Air Outlet Velocity	Vendor to Specify	
7.8	Face Velocity Across Coil	Vendor to Specify	
7.9	Air Temperature Leaving Heater	Vendor to Specify	
7.10	Voltage Rating	Vendor to Specify	
7.11	Casing Insulation Included	Vendor to Specify	
7.12	Heater Efficiency	Vendor to Specify	
	BHEL		VENDOR
	Prepared	Balaji D	
	Checked & Approved	Shankar Naik	

Technical Pre-Qualification Requirement (PQR) for

Dilution Air Heater (DAH)

1. The vendor shall be an established **air heater (AH)** supplier and having adequate Engineering, Manufacturing, testing and servicing facilities and shall furnish technical backup documents in proof for above requirements.
2. The vendor shall have experience of having supplied **AH** as per the technical specification for SCR plants or application of similar severity. Supply reference list with details of PO, PO date, customer name for Capacity.
3. The **AH** offered shall be from the existing regular supply range of the vendor. Vendor shall provide the product catalogue.
4. Proven track record is required. Minimum One end user certificate for the satisfactory operational performance of their product supplied.
(or)
successfully executed two POs for same item, meeting the subject technical specification requirement mentioned in the enquiry.
5. In case of ordering, the Vendor shall have the responsibility for the following and same to be confirmed point wise.
 - i) Vendor should have the component replacement responsibility in case of defect / failure.
 - ii) Experts from Vendor's side shall associate in commissioning activities at site, if required.
 - iii) Vendor should ensure the product performance during erection & commissioning and ensure performance guarantee.
6. Backup document checklist to meet PQR:

S. No	Document description	Check list
1	Documents to meet clause(1)	☐
2	Supply reference document (General reference list) to meet clause (2)	☐
3	Product Catalogues to meet clause (3)	☐
4	Min. one end user certificate (or) Two POs to meet clause (4)	☐
5	Confirmation to clause meet clause (5)	☐

Annexure – A- Additional Terms and Conditions for GeM Enquiry

The terms and condition mentioned in this document are applicable in addition to the GeM General Terms and Conditions. Bidders shall furnish pointwise confirmation/details.

Description of the Equipment:	DILUTION AIR HEATER (STEAM) AND ACCESSORIES
Projects	BHUSAWAL PROJECT (1727)
BHEL Tender No. & Date	BID NO: GEM/2021/B/1338276 dated 07.07.21
Name of the firm (Bidder)	:
Address	:
Contact details	<u>Contact person 1</u> Name: Designation: Office Phone: Mobile: e-mail: <u>Contact person 2</u> Name: Designation: Office Phone: Mobile: e-mail:

To be filled by bidder

Sl. No.	Terms and conditions	Vendor's confirmation
1 (a)	Technical: Bidder shall comply the specification requirements as per respective catalogues and shall submit the technical offer in line with our Specification requirements. Any clarifications/deviations to the specification requirements are to be clearly indicated. Hidden deviations indicated elsewhere in the offer will not be evaluated. Quality Plan shall be submitted by bidder. Supply shall be as per the quality plan approved by end customer/BHEL.	
1 (b)	Pre-qualification requirement: Offer shall be considered only if bidder is meeting Tender Prequalification requirement. Vendor to comply with Pre-Qualification requirement of the tender and submit along with their technical bid - the credentials and other documents as indicated in the PQR in the format prescribed. Otherwise their offer will get rejected.	
1 (c)	Inspection by BHEL/ BHEL approved TPIA/Customer.	
2	Firm Price: The quoted / finalised rates shall be Firm till execution of the supplies. Offer with PVC clause will not be considered.	
3	Delivery term: The quote shall be on FOR/BHUSAWAL PROJECT SITE inclusive of	

	Packing AND forwarding, Freight also to yours account. Transit Insurance is under BHEL scope.	
4	Vendor offers will be considered for price bid opening subject to fulfilment of PQR Requirement and techno commercial suitability.	
5 (a)	Guarantee / Warranty Period: 18 months from the date of supply or 12 months from the date of actual put in use, whichever is earlier. No Deviation is permitted. If still vendor offered any deviation on the Guarantee / warranty period, it may lead to rejection of offer.	
5 (b)	Repair & replacements: Within the guarantee period vendor has to replace / rectify the defective/ damaged items on free of cost within a reasonable time of reporting from our end.	
6 (a)	Kindly Indicate the HSN Code for all items	
6 (b)	Rate quoted in GeM portal should be on FOR destination basis inclusive of all taxes, freight etc. Transit Insurance is under BHEL scope. Please indicate the applicable GST %.	
7 (a)	Delivery Period: • Delivery Period shall be 120 days from the date of Document Approval. Material shall be dispatched after obtaining dispatch clearance from BHEL. Delivery period mentioned anywhere else in the bid document is for indicative purpose. Delivery schedule shall be strictly as per this clause.	
7 (b)	Document Submission: In case of PO placements, required documents have to be submitted for approval within 15 days from the date of PO & reply for any further clarification has to be within 4 days. Any delay beyond the above specified period will be considered during LD calculation.	
8	Invoice date/Bill of Lading date/Airway Bill date/Lorry way bill date/Railway Receipt date, whichever is later will be considered for LD calculation.	
9	Documents are to be submitted along with technical bid (Part-1) 01. Covering letter 02. Unpriced offer. 03. Filled technical specification and BHEL datasheets. 04. Filled BHEL Terms and condition sheet (Annexure-A) 05. Filled PQR along with supporting documents. 06. GA Drawing. 07. Catalogue's 08. Self-Certification as per Make in India clause 09. MSE Certificates (if applicable) Note: All the pages of documents are to be signed and sealed by	

	authorized signatory of the company. Any query during enquiry stage shall be replied within three days failing which offer may be rejected as non-responsive.	
10	Inspection and testing requirements: Inspection and testing requirements are to be carried out as per the specification and BHEL/Customer approved Drawing (All documents shall be submitted within 15 days from the date of PO for our approval), Technical spec & QP and all test certificates are to be submitted in complete set. Inspection notice period: For TPI inspector visit to vendor works, a minimum of 3 working days' notice period.	
11	O & M manuals: BHEL require 1 sets of printed O & M manuals with 3 soft copies in CD-ROM at no cost to be sent to BHEL/ Trichy.	
12	Supplier shall mention their GSTN registration number in all their invoices and invoices shall be in the format as specified/prescribed under GST laws. Invoices shall necessarily contain Invoice number (in case of multiple numbering system is being followed for billing like SAP invoice no, commercial invoice no etc., then the Invoice No which is linked/uploaded in GSTN network shall be clearly indicated), item description as per PO, Quantity, Rate, Value, applicable taxes with nomenclature (like IGST, SGST, CGST & UTGST) separately, HSN/ SAC Code, etc.	
13	All invoices shall bear the HSN Code for each item separately (Harmonized System of Nomenclature)/ SAC code (Services Accounting Code).	
14	Invoices will be processed only upon completion of statutory requirement and further subject to following: • Vendor declaring such invoice in Form GST ANX-1 • Receipt of Goods or Services and Tax invoice by BHEL	
14	As the continuous uploading of tax invoices in GSTN portal (in GST ANX-1) is available for all (i.e. both Small & Large) tax payers under proposed new GST Return System, all invoices raised on BHEL may be uploaded immediately in GST portal on despatch of material /rendering of services. The supplier shall ensure availability of Invoice in GST portal before submission of invoice to BHEL. Invoices will be admitted by BHEL only if the invoices are available in GSTN portal (in BHEL's GST ANX-2).	
16	In case of discrepancy in the data uploaded by the supplier in the GSTN portal or in case of any shortages or rejection in the supply, then BHEL will not be able to avail the tax credit and will notify the supplier of the same. Supplier has to rectify the data discrepancy in the GSTN portal or issue credit note or debit note (details also to be uploaded in GSTN portal) for the shortages or rejections in the supplies or additional claims, within the calendar month informed by BHEL.	
17	In cases where invoice details have been uploaded by the vendor but failed to remit the GST amount to GST Department (Form PMT-08 or Form GST RET-01 to be submitted) within stipulated time, then GST	

	paid on the invoices pertaining to the month for which GST return not filed by the vendor will be recovered from the vendor along with the applicable interest (currently 24% p.a) and all subsequent bills of the vendor will not be processed till filing of the GST return by the vendor	
18	In case GST credit is denied to BHEL due to non-receipt or delayed receipt of goods and/ or tax invoice or expiry of timeline prescribed in GST law for availing such ITC, or any other reasons not attributable to BHEL, GST amount claimed in the invoice shall be disallowed to the vendor.	
19	Where any GST liability arising on BHEL under Reverse Charge (RCM), the vendor has to submit the invoices to BHEL well within the timeline prescribed in GST Law, to enable BHEL to discharge the GST liability. If there is a delay in submission of invoice by the vendor resulting in delayed payment of GST by BHEL along with Interest, then such Interest payable or paid shall be recovered from the vendor.	
20	Under GST regime, BHEL has to discharge GST liability on LD recovered from suppliers/contracts. Hence applicable GST shall also be recoverable from suppliers/contractors on LD amount. For this Tax Invoice will be issued by BHEL indicating the respective supply invoice number.	
21	GST TDS will be deducted as per Section 51 of CGST Act 2017 and in line with Notification 50/2018 – Central Tax dated 13.09.2018. GST TDS certificate which will be generated in GST portal subsequent to vendor accepting the TDS deduction in the GST portal, will be issued to the vendor.	
22	A declaration to the effect that all invoice particulars are/were uploaded in the GSTN network/ portal & all tax liability as per GST rules and regulations have been and will be discharged, shall be mentioned in the invoice. If not mentioned in the invoice, a separate declaration shall be submitted as per the requirement of BHEL	
23	MSE VENDOR: <i>Udyam Registration certificate shall be submitted by MSE vendors for availing the benefits.</i>	
24	<u>Make in India:</u> The local supplier at the time of tender, bidding or solicitation shall be required to provide self-certification that the item offered meets the minimum local content and shall give details of the location(s) at which the local value addition is made. Counter offering for Make in India will be on package basis (non-splittable)	
25	<u>Fraud Prevention Policy</u> 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.	

26	<u>Packing Requirements:</u> Packing shall be as per Specification Requirements.	
Note	- In the event of our customer order covering this tender being cancelled /placed on hold / otherwise modified, BHEL would be constrained to accordingly cancel / hold / modify the tender at any stage of execution. - BHEL may negotiate the L1 rate, if not meeting our budget / estimated cost. BHEL may re-float the tender opened, if L1 price is not acceptable to BHEL. - BHEL reserves its right to reject an offer due to unsatisfactory past performance by the respective Vendor in the execution of any contract to any BHEL project / Unit. Any other Techno –Commercial Terms indicated by the vendor in their offer elsewhere will be ignored. BHEL will proceed with tender evaluation as per Annexure A and GEM Terms and Conditions only.	