



PURCHASE-BOI DEPARTMENT
BHARAT HEAVY ELECTRICALS LIMITED,
HEAVY ELECTRICAL EQUIPMENT PLANT,
RANIPUR, HARIDWAR – 249 403 (UTTARAKHAND), INDIA

BHEL Ref. No.: B/4133/2024/3461/V1

Tender Enquiry for the requirement of Gas Analyser Cabinet & Its Commissioning for Raigarh TPP (Ph-II), 2x800 MW MW Raipur (Ph-II) TPP, 2x800 MW Mirzapur (Ph-I), 2x800 MW KAWAI (Ph-II), 2x800 MW KAWAI (Ph.-III) & Mahan USTPP (Ph-III)

project

Bids are invited from the bidders for providing the complete design, supply of material and it's commissioning of **Gas Analyser Cabinet for above project** as per detailed specifications. All tender documents uploaded along with this tender enquiry are as mentioned below.

LIST OF TENDER DOCUMENTS

S.No.	Document Name & No.	Total Pages
1.	COVER INDEX	1 of 35
2.	PQR (PRE-QUALIFICATION REQUIREMENT)	2 of 35
3.	MAIN CONTRACTOR PROPOSAL	3 of 35
4.	SUB-VENDOR QUESTIONNAIRE	4-12 of 35
5.	ADDITIONAL TERMS & CONDITIONS FOR TENDER	13-24 of 35
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7.	QUALITY PLAN (BLANK FORMAT)	34 of 35
8.	MAKE IN INDIA FORMAT	35 of 35

For and on behalf of BHEL, Hardwar

Manager (PPX-BOI)

Pre-Qualification Requirements (PQR) for Gas Analyzer Cabinet
Material code no. W90418108072, W90418108056 & W90418108030

Purpose of System: The purpose of said system is to continuously measure purity of H₂ in air, H₂ in CO₂ and CO₂ in air for Turbogenerator of power plant for monitoring. Gas analyser cabinet shall comprise sampling cell, valve, piping, indicator etc.

- 1) Bidder shall be manufacturer or authorized supplier of Gas analyzer cabinet. Letter of authorization or suitable documents shall be submitted for the same.
- 2) The Vendor should have supplied above system for at least two H₂ cooled Turbo-Generators and system must be working for one years to the satisfaction of end customer.

In support of above, Vendor to provide Customer satisfaction letter from minimum one customer or "Installation and commissioning" report (endorsed by end customer) from at least two installations. The report shall not be older than last 7 years from date of enquiry.

OR

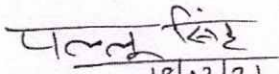
Successful execution of at least one order for BHEL Haridwar for Gas analyser cabinet. *within last 7 years for Doc.*

- 3) Gas analyzer should be intrinsically safe, suitable for work under potentially explosive environment of hydrogen gas application.
- 4) The measurement may be based on gas density/ thermal conductivity principle.
- 5) Gas analyzer must have local display for operating ranges (0-100 Vol% CO₂ in air, 0-100 Vol% H₂ in CO₂ and 85/90-100 Vol% H₂ in air) and output in form of 4-20 mA for selected range shall be provided.
- 6) Analyzer should essentially meet following requirements: -
 - a) Response time T₉₀ within 5 Sec.
 - b) Flow effect <0.5% of span for variation in flow by ±10 L/Hr.

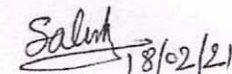
Notes: -

- 1) Vendor to furnish their complete reference / experience list for our review.
- 2) BHEL reserves the right to verify information submitted by vendor. In case the information is found false/ incorrect, the offer shall be rejected.

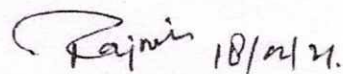
Prepared by


Pallu Singh
Mgr / CIE

Checked by


Satish Kumar
DGM / CIE

Approved by


Rajnish Gupta
AGM / CIE



Bharat Heavy Electricals Limited
(A Govt. of India Undertaking)
HEEP, Ranipur Haridwar
MAIN CONTRACTOR's PROPOSAL

1.	Name of proposed vendor and factory location	
2.	Item details for which vendor approval is requested <ul style="list-style-type: none">• Item/Equipment• Size• Capacity• Rating• Service (Steam/Water/Other)• Plant System (Application)	<ol style="list-style-type: none">1. Item/Equipment: Specify the exact item or equipment name.2. Size: Provide the dimensions or size specifications.3. Capacity: Mention the capacity, such as volume, weight, or power.4. Rating: Include any relevant ratings, such as voltage, pressure/temp class, or efficiency.5. Service: Indicate the type of service (e.g., Steam, Water, Other).6. Plant System (Application): Describe the plant system or application where the item will be used.
3.	Approval Status: Whether approved by NTPC for project supply? (No/Yes) If Yes , provide the following details: <ul style="list-style-type: none">• Name of Project:• Plant Capacity:• Max Size/Rating of Item/Equipment Delivered:• Commissioning Date:• Operational Since:• Whether Supplied Through BHEL:	
5.	Project supply experience for clients other than NTPC <ul style="list-style-type: none">• Name of Project:• Plant Capacity:• Max Size/Rating of Item/Equipment Delivered:• Commissioning Date:• Operational Since:• Whether Supplied Through BHEL:	
6.	Reason for additional vendor proposal	
7.	Additional information if any	

Signature:
Name:

Main Contractor (name and Signature)



ASSESSMENT OF SUPPLIER

Name of item/equipments for which assessment is required:-----

1.0 GENERAL INFORMATION :-

1.1) Name of the company	
1.2) Address of their Regd. office with telephone No., Fax No.& E-Mail	
1.3) Address of the Supplier's factory / works with telephone No., Fax No.& E-Mail a) Weekly off :- b) Shift working per day:-	a) ----- b) One/Two/Three
1.4) Address of the Supplier's Branch offices with telephone No., Fax No.& E-Mail	
1.5) Nature of the firm: (Govt. Undertaking / State Govt. Undertaking / Private Company / Co-operative society / Partnership Firm / Proprietorship / Any other)	
1.6) Nature of Business (Manufacturing Unit / Agent / Distributor / Stockiest)	
1.7) Year of establishment	
1.8) Year of commencement of manufacturing	
1.9) Name of the Chief Executive/ Proprietor & Plant Manager	
1.10) Contact Person	



ASSESSMENT OF SUPPLIER

(Name, Designation, Address, Telephone no. , Mob. No. Fax & Email)	
1.11) Total Nos. of employees (Attach organization chart)	i) Administration & Commercial ----- ii) Engineering & Technology ----- iii) Manufacturing ----- iv) Quality ----- v) Maintenance ----- vi) Site Management ----- vii) Other ----- viii) Total -----
1.12) Total area of the Factory a) Covered b) Uncovered	
1.13) Electrical Power and alternative arrangement for power: (Give Details)	

2.0 FINANCIAL INFORMATION:-

	Year 1	Year 2	Year 3
2.1) Share Equity Capital			
2.2) Long Term Debt			
2.3) Investment in :- i) Land & building ii) Plant & Equipment iii) Other Fixed Assets			
2.4) Net Current Assets			
2.5) Net Current Liabilities			
2.6) Sales			
2.7) Profit before tax			
NOTE:- Copies of annual Balance Sheet for the last three years along with audit report to be submitted.			

3.0: TECHNICAL INFORMATION :-



ASSESSMENT OF SUPPLIER

3.1 Manufacturing Capacity for the item / equipment for which approval is required

Sl. No	Name of Product	Licensed Capacity	Installed Capacity

3.2 Brief details of the item / equipment manufactured in the past three years:-

Sl. No.	Item Description	Specn/Grade/Size	Annual Production in the last three Years		

3.3 Manufacturing facilities including material handling facilities:-

Sl. No.	Description of machines used for manufacturing	Capacity, Size	Make	Yr of installation	Limitations	Remarks

3.4 Measuring, inspection, testing and heat treatment facilities (in house):-

Sl.No.	Description of equipment	Size, range, Capacity & accuracy	Make	Last date of calibration

3.5 Measuring, inspection, testing and heat treatment facilities (out sourced):

Sl. No.	Description of test	Name of the agency carrying out the test

3.6 Foreign collaboration, if any:



ASSESSMENT OF SUPPLIER

Product	Name & address of the Collaborator	Year of Collaboration	Whether current or not

3.7 Details same/ similar item supplied in the last three years:-

Item description	Specn.& size	Major Customer Name	Project Name	Po. No. & date	Qty	Year of Supply	Remark

3.8 Source of raw materials:-

Description of raw materials	Name & address of the suppliers

3.9 Copies of Qualification Approval / Type Test certificates / Test Reports for the item / equipment witnessed by any independent agency may be attached.

3.10 Furnish process flow chart including inspection stages

3.11 Details and experience of technical personnel (Head of various departments)

3.12 Performance feed back if any – Attach feed back certificates.

4.0 QUALITY MANAGEMENT SYSTEM:-

4.1 Furnish organization chart of Quality department including NDT (non destructive test) personnel

4.2 Whether QA system is certified as per ISO- 9001? If yes then attach a copy of the certificate.

4.3 Incoming material control:-

Format No. ADANI/Q/F-12 Rev 01

A formalized supplier rating, evaluation & certification programme which includes quality performance criteria.	i)Whether such procedure exist? ii) Whether system is effective? iii)Whether records are available?	Yes/No Yes/No Yes/No
Verification of incoming material prior to storage	i)Whether such procedure exist? ii) Whether system is effective? iii)Whether records are available?	Yes/No Yes/No Yes/No

4.4 Process control:-

Work instructions have been documented by the sub supplier and followed by the worker.	i)Whether such procedure exist? ii) Whether system is effective? iii)Whether records are available?	Yes/No Yes/No Yes/No
Required tools, jigs & fixtures are identified and used.	i)Whether such procedure exist? ii) Whether system is effective? iii)Whether records are available?	Yes/No Yes/No Yes/No
Procedure for qualification & revalidation of qualification of welder and NDT operator or any other special processes	i)Whether such procedure exist? ii) Whether system is effective? iii)Whether records are available?	Yes/No Yes/No Yes/No
Testing facilities for Chemical, Mechanical, Electrical and NDT tests. Trained personnel carry out the tests and records are maintained.	i)Whether such procedure exist? ii) Whether system is effective? iii) Whether records are available? iv) Whether details of trained personnel submitted?	Yes/No Yes/No Yes/No Yes/ No
Preventative maintenance activities are performed critical machines and records maintained.	i)Whether such procedure exist? ii) Whether system is effective? iii)Whether records are available?	Yes/No Yes/No Yes/No
Material identification and acceptance status is maintained throughout the manufacturing process and storage.	i)Whether such procedure exist? ii) Whether system is effective? iii)Whether records are available?	Yes/No Yes/No Yes/No
Identification / Preservation, & Packing procedures	i)Whether such procedure exist? ii) Whether system is effective? iii)Whether records are available?	Yes/No Yes/No Yes/No

4.5 Control of non-conformance:-



ASSESSMENT OF SUPPLIER

Record of rework /rectification	i)Whether such procedure exist? ii) Whether system is effective? iii)Whether records are available?	Yes/No Yes/No Yes/No
System of review and analysis of repeated non-conformities/ failures and their prevention in future.	i)Whether such procedure exist? ii) Whether system is effective? iii)Whether records are available?	Yes/No Yes/No Yes/No

4.6 Calibration of measuring & testing equipments:-

System of calibration of gauges, fixtures and instruments	i) Whether such procedure exist? ii) Whether system is effective? iii)Whether records are available?	Yes/No Yes/No Yes/No
Master gauges / standards are traceable to recognized national standards.	i) Whether such procedure exist? ii) Whether system is effective? iii)Whether records are available?	Yes/No Yes/No Yes/No

4.7 Inspection & testing of finish product:-

System of inspection and testing of finished product exits.	i)Whether such procedure exists? ii) Whether system is effective? iii)Whether records are available?	Yes/No Yes/No Yes/No
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4.8 System of recording, attending and monitoring customer complaint & corrective action.

System of recording, attending and monitoring customer complaint and corrective action exits.	i) Whether such procedure exist? ii) Whether system is effective? iii)Whether records are available?	Yes/No Yes/No Yes/No
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4.9 Any other information:-

Enclosures:-

Place:

Signature

Date:

Name and Designation

Seal



MAIN SUPPLIER'S EVALUTION REPORT OF THE PROPOSED SUB-SUPPLIER

1. Name of Main Supplier :

2. Project Name :

3. Package Name :

4. Name of item/equipment to be procure :
(with Rating/Type/Size)

5. .Brief specification of equipment to be procured :

6. Name of the proposed sub-supplier :

7. Address of sub-supplier's Regd. office :
(with phone no. Fax no. & Email)

8. Address of the sub-supplier's manufacturing unit :
(with phone no. Fax no., & Email)

9. Name of the contact person of the sub- supplier :
(with phone no. Fax no., Mob no. & Email)

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10. Reference List :

(Extensive experience in particular type of equipment to be procured)

Name of customer with address	Name of the plant where equipment were installed	Type/ Rating/ Capacity	Date of dispatch of equipment	Date of Commissioning of equipment	Nos. of years in operation	Performance feed back from customer

11. Main supplier's to submit their own assessment report of the sub-supplier:

Attached / Not attached

12. Main supplier's recommendation:

Name

Designation
Dept. / Company

Signature

Date

List of enclosures :-

- 1.
- 2.
- 3.



ADDITIONAL TERMS AND CONDITIONS FOR GAS ANALYSER CABINET FOR RAIGARH TPP (PH-II), 2X800 MW MW RAIPUR (PH-II) TPP, 2X800 MW MIRZAPUR (PH-I), 2X800 MW KAWAI (PH-II), 2X800 MW KAWAI (PH.-III) & MAHAN USTPP (PH-III) PROJECT, (ANNEXURE I)

SL. NO.	TERMS	DESCRIPTION	YOUR CONFIRMATION & ACCEPTANCE												
1.	Compliance of GTC on GeM	In addition to the terms & conditions mentioned in below table, General terms and conditions on GeM 4.0 (Version 1.21) shall be applicable against this enquiry. Kindly confirm same is acceptable to you.													
2.	Basis of quotation:	<p>Prices are to be quoted on Ex-works freight prepaid up to destination basis (Mahan project site).</p> <p>Kindly confirm that price has been quoted on Ex-works freight prepaid up to Project site basis inclusive of GST (i.e. including all taxes, duties, local levies/ transportation / loading & unloading charges, packing & forwarding charges etc.)</p> <p>The goods can be dispatched through any Bank approved transporters having their branch at Haridwar. The names and addresses of transporters approved by IBA as well as BHEL are posted at our website www.hwr.bhel.com .</p> <p>Evaluation will be done on total landed cost of complete sets of projects taking material supply and commissioning charges together.</p> <p>Transit insurance will be provided by BHEL.</p>													
3.	Scope of enquiry with expected deliveries	<table> <tr> <th>Sl. No.</th><th>Material Code and Item Description</th><th>Qty.</th><th>Delivery Requirement</th></tr> <tr> <td>1.</td><td>Gas Analyser Cabinet (W90418108072)</td><td>12 Sets.</td><td> Lot-1: 03.08.2026 (01 Sets) Lot-2: 03.11.2026 (01 Sets) Lot-3: 30.03.2027 (01 Sets) Lot-4: 30.09.2027 (01 Sets) Lot-5: 30.08.2027 (01 Sets) Lot-6: 01.03.2028 (01 Sets) Lot-7: 30.01.2028 (01 Sets) Lot-8: 30.07.2028 (01 Sets) Lot-9: 30.04.2028 (01 Sets) Lot-10: 30.10.2028 (01 Sets) Lot-11: 28.05.2028 (01 Sets) Lot-12: 28.11.2028 (01 Sets) </td></tr> <tr> <td>2.</td><td>Commissioning of H2 Gas Analyser Cabinet (W90418108030)</td><td>12 Nos.</td><td> Lot-1: 03.08.2026 (01 Sets) Lot-2: 03.11.2026 (01 Sets) Lot-3: 30.03.2027 (01 Sets) Lot-4: 30.09.2027 (01 Sets) Lot-5: 30.08.2027 (01 Sets) Lot-6: 01.03.2028 (01 Sets) Lot-7: 30.01.2028 (01 Sets) Lot-8: 30.07.2028 (01 Sets) Lot-9: 30.04.2028 (01 Sets) Lot-10: 30.10.2028 (01 Sets) Lot-11: 28.05.2028 (01 Sets) Lot-12: 28.11.2028 (01 Sets) </td></tr> </table>	Sl. No.	Material Code and Item Description	Qty.	Delivery Requirement	1.	Gas Analyser Cabinet (W90418108072)	12 Sets.	Lot-1: 03.08.2026 (01 Sets) Lot-2: 03.11.2026 (01 Sets) Lot-3: 30.03.2027 (01 Sets) Lot-4: 30.09.2027 (01 Sets) Lot-5: 30.08.2027 (01 Sets) Lot-6: 01.03.2028 (01 Sets) Lot-7: 30.01.2028 (01 Sets) Lot-8: 30.07.2028 (01 Sets) Lot-9: 30.04.2028 (01 Sets) Lot-10: 30.10.2028 (01 Sets) Lot-11: 28.05.2028 (01 Sets) Lot-12: 28.11.2028 (01 Sets)	2.	Commissioning of H2 Gas Analyser Cabinet (W90418108030)	12 Nos.	Lot-1: 03.08.2026 (01 Sets) Lot-2: 03.11.2026 (01 Sets) Lot-3: 30.03.2027 (01 Sets) Lot-4: 30.09.2027 (01 Sets) Lot-5: 30.08.2027 (01 Sets) Lot-6: 01.03.2028 (01 Sets) Lot-7: 30.01.2028 (01 Sets) Lot-8: 30.07.2028 (01 Sets) Lot-9: 30.04.2028 (01 Sets) Lot-10: 30.10.2028 (01 Sets) Lot-11: 28.05.2028 (01 Sets) Lot-12: 28.11.2028 (01 Sets)	
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4.	Pre-Qualification Requirements	<p>All bidders should ensure submission of complete details and documents as called for in the pre-qualification requirements. The Offers submitted by the bidders would be scrutinized with respect to Pre-Qualification Requirements first. Techno-Commercial offer of only those bidders shall be evaluated who meet the Pre-Qualification Requirements.</p> <p>Kindly note that clarifications against PQR, technical/ quality requirement and any commercial queries are to be responded by bidders within 04 days from the date of clarification sought.</p> <p>In case of any delay from the bidders, BHEL reserves the right to reject their offer and no-further correspondence shall be entertained thereafter.</p>									
5.	Technical specification	Refer BHEL Document No. TG60530, Rev. 11 for details of scope, test reports & guarantee requirements.									
6.	Payment Term	<p>The payment shall be done within “n” no. of days of the acknowledged receipt of the material at project site:</p> <table><tr><th>Type of Bidder</th><th>Payment Terms (Number of Days)</th></tr><tr><td>Micro & Small Enterprises (MSEs)</td><td>45 days</td></tr><tr><td>Medium Enterprises</td><td>60 days</td></tr><tr><td>Non MSME</td><td>90 days</td></tr></table> <p>Payment for commissioning: 100% payment shall be done after successful commissioning report from project site. Kindly confirm.</p>	Type of Bidder	Payment Terms (Number of Days)	Micro & Small Enterprises (MSEs)	45 days	Medium Enterprises	60 days	Non MSME	90 days	
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Micro & Small Enterprises (MSEs)	45 days										
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7.	Packing	<p>1. Material for unit-1, unit-2, commissioning spares and mandatory spares to be packed in separate boxes and same is required to be marked on the box. Please confirm.</p> <p>2. MSDS (material safety data sheet) is to be sent along with LR docs, if applicable. Please confirm.</p>									
8.	Delivery Schedule/ Period	<p>Bidder to quote their delivery in no. of weeks from the date of PO placement or drawings/documents approval or manufacturing clearance, whichever is later from BHEL considering the due dates in Enquiry.</p> <p>Final delivery would be either delivery period quoted by bidder in offer from manufacturing clearance or delivery schedule as mentioned in enquiry or actual site requirement, whichever is later. Kindly confirm.</p> <p>Kindly confirm that commissioning is to be done by vendor on BHEL intimation. Vendor will depute their service engineer within 15 days of intimation from BHEL.</p>									
9.	Liquidated Damages	<p>Liquidated Damages, wherever referred under this Tender/Agreement, shall mean and refer to the damages, not in the nature of penalty, which the contractor agrees to pay in the event of delay in delivery of supplies, breach of contract etc. as the case may be.</p> <p>Liquidated Damages leviable upon the Supplier/Vendor is a sum which is agreed by the parties as a reasonable and genuine pre-estimate of damages which will be suffered by BHEL on account of delay/breach on the part of the Supplier/Vendor.</p>									

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		<p>If the Seller/Service Provider fails to deliver any or all of the Goods/Services within the original/re-fixed delivery period(s) specified in the contract/PO, the Buyer/BHEL will be entitled to deduct/recover the Liquidated Damages for the delay, unless covered under Force Majeure conditions aforesaid, @ 0.5% of the contract value of delayed quantity per week or part of the week of delayed period as pre-estimated damages not exceeding 10% of the contract value of delayed quantity without any controversy/dispute of any sort whatsoever.</p> <p>Date of LR/GR to be treated as date of delivery for LD purpose.</p>	
10.	Quality Requirements	<p>Kindly confirm the following:</p> <ol style="list-style-type: none"> 1. Vendor approval from end customer is required. Vendor to submit credentials in attached format to take up with end customer for approval. Vendor to confirm to follow end customer approval condition. 2. Pre-dispatch inspection by BHEL / BHEL nominated inspection agency as per BHEL approved QAP. Vendor to Submit QP for BHEL approval. 	
11.	Engineering drawing and document approval	<p>Drawings/ Datasheets/ Documents as called for in the specifications shall be submitted for approval to BHEL for BHEL/ Customer approval within 30 days of purchase order. Any delay in delivery on account of late submission of drawings/documents shall be to vendors account. BHEL will arrange the approval of the drawings.</p>	
12.	Despatch documents	<p>Following documents to be enclosed with dispatch documents of this item:</p> <ol style="list-style-type: none"> a) Operation and Maintenance Manual for site. b) Test certificates and guarantee certificates. c) Erection & Commissioning Required at Site. d) Pre-commissioning checklist. e) Other documents as mentioned in document no. TG60530, Rev. 11. <p>Submission to BHEL-HEEP Haridwar of invoices for payment for material shall be done along with following originals:</p> <ol style="list-style-type: none"> a) Tax Invoice b) Consignee copy of GR c) Packing list d) Test Certificates/Inspection Reports (TC/IR) e) Guarantee Certificate f) E-way bill g) Original GST compliance certificate. h) Material is to be despatched on door delivery basis. <p>Kindly submit original GR to BHEL HEEP Haridwar for end customer billing.</p>	

ADDITIONAL TERMS AND CONDITIONS FOR GAS ANALYSER CABINET FOR RAIGARH TPP (PH-II), 2X800 MW MW RAIPUR (PH-II) TPP, 2X800 MW MIRZAPUR (PH-I), 2X800 MW KAWAI (PH-II), 2X800 MW KAWAI (PH.-III) & MAHAN USTPP (PH-III) PROJECT, (ANNEXURE I)

13.	MDCC Clause	<p>Material shall be dispatched only after issue of Material dispatch clearance certificate (MDCC) by BHEL. For issue of MDCC, you are required to submit all test certificates (TC) and inspection reports of third party (IR) immediately after inspection at least 7 days prior to the PO delivery schedule. BHEL will issue MDCC after receipt of TCs & IR, if complete & clear w.r.t. approved quality plan and comply with approved technical documents.</p> <p>The material should be dispatched within 07 days of issue of Material Dispatch Clearance Certificate (MDCC) by BHEL and other necessary documents (Road permit etc.).</p> <p>Any delay on submission/ approval shall be on respective account.</p>	
14.	Guarantee	<p>Three copies of test certificates for routine & type tests and guarantee certificates in English shall be furnished while executing the order. Guarantee Certificate shall be provided as per specification i.e. 24 months trouble free operation from the date of commissioning or 30 months from the date of supply, whichever is earlier. Please confirm.</p> <p>Any defect during guarantee period shall be rectified by supplier at no obligation.</p> <p>Normally deviation would not be accepted under this clause and your offer may be rejected.</p>	
15.	Customer Approval	<p>This is a customer control item.</p> <p>For customer un-approved vendors: For arranging your approval from customer, please submit credentials for Customer review and approval.</p> <p>Your offer will be considered subject to customer approval before price bid opening. Please confirm.</p>	
16.	Painting	<p>Please conform the painting as per the below:</p> <ol style="list-style-type: none"> 1. Paint shade for H2 gas analyser cabinet shall be exterior light grey RAL 7035 interior brilliant white. 2. Thickness of outer coat of paint shall be minimum 100 micron. 	
17.	Breach of Contract, Remedies and Termination:	<p>The following shall amount to breach of contract:</p> <ol style="list-style-type: none"> I. Non-supply of material/ non-completion of work by the Supplier/Vendor within scheduled delivery/ completion period as per contract or as extended from time to time. II. The Supplier/Vendor fails to perform as per the activity schedule and there are sufficient reasons even before expiry of the delivery/ completion period to justify that supplies shall be inordinately delayed beyond contractual delivery/ completion period. III. The Supplier/Vendor delivers equipment/ material not of the contracted quality. IV. The Supplier/Vendor fails to replace the defective equipment/ material/ component as per guarantee clause. V. Withdrawal from or abandonment of the work by the Supplier/Vendor before completion as per contract. 	

ADDITIONAL TERMS AND CONDITIONS FOR GAS ANALYSER CABINET FOR RAIGARH TPP (PH-II), 2X800 MW MW RAIPUR (PH-II) TPP, 2X800 MW MIRZAPUR (PH-I), 2X800 MW KAWAI (PH-II), 2X800 MW KAWAI (PH.-III) & MAHAN USTPP (PH-III) PROJECT, (ANNEXURE I)

		<p>VI. Assignment, transfer, subletting of Contract by the Supplier/Vendor without BHEL's written permission resulting in termination of Contract or part thereof by BHEL.</p> <p>VII. Non-compliance to any contractual condition or any other default attributable to Supplier/Vendor.</p> <p>VIII. Any other reason(s) attributable to Vendor towards failure of performance of contract. In case of breach of contract, BHEL shall have the right to terminate the Purchase Order/ Contract either in whole or in part thereof without any compensation to the Supplier/Vendor.</p> <p>IX. Any of the declarations furnished by the contractor at the time of bidding and/ or entering into the contract for supply are found untruthful and such declarations were of a nature that could have resulted in non-award of contract to the contractor or could expose BHEL and/ or Owner to adverse consequences, financial or otherwise.</p> <p>X. Supplier/Vendor is convicted of any offence involving corrupt business practices, antinational activities or any such offence that compromises the business ethics of BHEL, in violation of the Integrity Pact entered into with BHEL has the potential to harm the overall business of BHEL/ Owner.</p> <p>Note: Once BHEL considers that a breach of contract has occurred on the part of Supplier/Vendor, BHEL shall notify the Supplier/Vendor by way of notice in this regard. Contractor shall be given an opportunity to rectify the reasons causing the breach of contract within a period of 14 days.</p> <p>In case the contractor fails to remedy the breach, as mentioned in the notice, to the satisfaction of BHEL, BHEL shall have the right to take recourse to any of the remedial actions available to it under the relevant provisions of contract.</p> <p>Remedies in case of Breach of Contract:</p> <p>i. Wherein the period as stipulated in the notice issued under above clause has expired and Supplier/Vendor has failed to remedy the breach, BHEL will have the right to terminate the contract on the ground of "Breach of Contract" without any further notice to contractor.</p> <p>ii. Upon termination of contract, BHEL shall be entitled to recover an amount equivalent to 10% of the Contract Value for the damages on account of breach of contract committed by the Supplier/Vendor. This amount shall be recovered by way of encashing the security instruments like performance bank guarantee etc. available with BHEL against the said contract. In case the value of the security instruments available is less than 10% of the contract value, the balance amount shall be recovered from other financial remedies (i.e. available bills of the Supplier/Vendor, retention amount, from the money due to the Supplier/Vendor etc. with BHEL) or the other legal remedies shall be pursued.</p> <p>iii. wherever the value of security instruments like performance bank guarantee available with BHEL against the said contract is 10% of the contract value or more, such security instruments to the extent of 10%</p>	
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ADDITIONAL TERMS AND CONDITIONS FOR GAS ANALYSER CABINET FOR RAIGARH TPP (PH-II), 2X800 MW MW RAIPUR (PH-II) TPP, 2X800 MW MIRZAPUR (PH-I), 2X800 MW KAWAI (PH-II), 2X800 MW KAWAI (PH.-III) & MAHAN USTPP (PH-III) PROJECT, (ANNEXURE I)

		<p>contract value will be encashed. In case no security instruments are available or the value of the security instruments available is less than 10% of the contract value, the 10% of the contract value or the balance amount, as the case may be, will be recovered in all or any of the following manners:</p> <p>iv. In case the amount recovered under sub clause (a) above is not sufficient to fulfil the amount recoverable then; a demand notice to deposit the balance amount within 30 days shall be issued to Supplier/Vendor.</p> <p>v. If Supplier/Vendor fails to deposit the balance amount within the period as prescribed in demand notice, following action shall be taken for recovery of the balance amount:</p> <p>a) from dues available in the form of Bills payable to defaulted Supplier/Vendor against the same contract.</p> <p>b) If it is not possible to recover the dues available from the same contract or dues are insufficient to meet the recoverable amount, balance amount shall be recovered from any money(s) payable to Supplier/Vendor under any contract with other Units of BHEL including recovery from security deposits or any other deposit available in the form of security instruments of any kind against Security deposit or EMD.</p> <p>vi. In-case recoveries are not possible with any of the above available options, Legal action shall be initiated for recovery against defaulted supplier/Vendor.</p> <p>vii. It is an agreed term of contract that this amount shall be a genuine pre-estimate of damages that BHEL would incur in completion of balance contractual obligation of the contract through any other agency and BHEL will not be required to furnish any other evidence to the Supplier/Vendor for the purpose of estimation of damages.</p> <p>viii. In addition to the above, imposition of liquidated damages, debarment, termination, de-scoping, short-closure, etc., shall be applied as per provisions of the contract.</p> <p>Note:</p> <p>The defaulting Supplier/Vendor shall not be eligible for participation in any of the future enquiries floated by BHEL to complete the balance work. The defaulting contractor shall mean and include:</p> <p>a) In case defaulted Supplier/Vendor is the Sole Proprietorship Firm, any Sole Proprietorship Firm owned by same Sole Proprietor.</p> <p>b) In case defaulted Supplier/Vendor is The Partnership Firm, any firm comprising of same partners/ some of the same partners; or sole proprietorship firm owned by any partner(s) as a sole proprietor.</p>	
18.	Settlement of Disputes/Arbitration	<p>If any dispute or difference of any kind whatsoever shall arise between BHEL and the Supplier/Vendor, arising out of the contract for the performance of the work whether during the progress of contract termination, abandonment or breach of the contract, it shall in the first place referred to</p>	

ADDITIONAL TERMS AND CONDITIONS FOR GAS ANALYSER CABINET FOR RAIGARH TPP (PH-II), 2X800 MW MW RAIPUR (PH-II) TPP, 2X800 MW MIRZAPUR (PH-I), 2X800 MW KAWAI (PH-II), 2X800 MW KAWAI (PH.-III) & MAHAN USTPP (PH-III) PROJECT, (ANNEXURE I)

		<p>Designated Engineer for amicable resolution by the parties. Designated Engineer (to be nominated by BHEL for settlement of disputes arising out of the contract) who within 60 days after being requested shall give written notice of his decision to the contractor. Save as hereinafter provided, such decision in respect of every matter so referred shall forthwith be given effect to by the Supplier/Vendor who shall proceed with the work with all due diligence, whether he or BHEL desires to resolve the dispute as hereinafter provided or not.</p> <p>If after the Designated Engineer has given written notice of this decision to the party and no intention to pursue the dispute has been communicated to him by the affected party within 30 days from the receipt of such notice, the said decision shall become final and binding on the parties. In the event the Supplier/Vendor being dissatisfied with any such decision or if amicable settlement cannot be reached then all such disputed issues shall be resolved through conciliation in terms of the BHEL Conciliation Scheme 2018 as per Clause 18.1.</p> <p>18.1 Conciliation: Any dispute, difference or controversy of whatever nature howsoever arising under or out of or in relation to this Agreement (including its interpretation) between the Parties, and so notified in writing by either Party to the other Party (the "Dispute") shall, in the first instance, be attempted to be resolved amicably in accordance with the conciliation procedure as per BHEL Conciliation Scheme 2018. The proceedings of Conciliation shall broadly be governed by Part-III of the Arbitration and Conciliation Act 1996 or any statutory modification thereof and as provided in - "Procedure for conduct of conciliation proceedings" (as available in www.bhel.com)).</p> <p>Note: Ministry of Finance has issued OM reference No. 1/2/24 dated 03.06.2024 regarding "Guidelines for Arbitration and Mediation in Contracts of Domestic Public Procurement. In the said OM it has been recommended that Government departments/Entities/agencies are to encourage mediation under the Mediation Act. 2023. The said Act has not yet been notified by the Government. Therefore, the clause "Settlement of Disputes" shall be modified accordingly as and when the Mediation Act 2023 gets notified.</p> <p>18.2 ARBITRATION:</p> <p>18.2.1 Except as provided elsewhere in this Contract, in case Parties are unable to reach amicable settlement (whether by Conciliation to be conducted as provided herein above or otherwise) in respect of any dispute or difference; arising out of the formation, breach, termination, validity or execution of the Contract; or, the respective rights and liabilities of the Parties; or, in relation to interpretation of any provision of the Contract; or, in any manner touching upon the Contract (hereinafter referred to as the 'Dispute'), then, either Party may, refer the disputes to 'Delhi International Arbitration Centre' and such dispute to be adjudicated by Sole Arbitrator appointed in accordance with the Rules of said Arbitral Institution.</p> <p>18.2.2 A party willing to commence arbitration proceeding shall invoke Arbitration Clause by giving notice to the other party in terms of section 21 of the Arbitration & Conciliation Act, 1996 (hereinafter referred to as the 'Notice') before referring the matter to arbitral institution. The Notice shall be addressed to the Head of the Region, Power Sector/ Unit, BHEL,</p>	
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ADDITIONAL TERMS AND CONDITIONS FOR GAS ANALYSER CABINET FOR RAIGARH TPP (PH-II), 2X800 MW MW RAIPUR (PH-II) TPP, 2X800 MW MIRZAPUR (PH-I), 2X800 MW KAWAI (PH-II), 2X800 MW KAWAI (PH.-III) & MAHAN USTPP (PH-III) PROJECT, (ANNEXURE I)

		<p>executing the Contract and shall contain the particulars of all claims to be referred to arbitration with sufficient detail and shall also indicate the monetary amount of such claim including interest, if any.</p> <p>18.2.3 After expiry of 30 days from the date of receipt of aforesaid notice, the party invoking the Arbitration shall submit that dispute to the Arbitral Institution: Delhi International Arbitration Centre and that dispute shall be adjudicated in accordance with their respective Arbitration Rules. The matter shall be adjudicated by a Sole Arbitrator who shall necessarily be a Retd Judge having considerable experience in commercial matters to be appointed/nominated by the respective institution. The cost/expenses pertaining to the said Arbitration shall also be governed in accordance with the Rules of the respective Arbitral Institution. The decision of the party invoking the Arbitration for reference of dispute to a specific Arbitral institution for adjudication of that dispute shall be final and binding on both the parties and shall not be subject to any change thereafter. The institution once selected at the time of invocation of dispute shall remain unchanged.</p> <p>18.2.4 The fee and expenses shall be borne by the parties as per the Arbitral Institutional rules.</p> <p>18.2.5 The Arbitration proceedings shall be in English language and the seat and venue of Arbitration shall be 'Delhi International Arbitration Centre'.</p> <p>18.2.6 Subject to the above, the provisions of Arbitration & Conciliation Act 1996 and any amendment thereof shall be applicable. All matters relating to this Contract and arising out of invocation of Arbitration clause are subject to the exclusive jurisdiction of the Court(s) situated at Haridwar.</p> <p>18.2.7 Notwithstanding any reference to the Designated Engineer or Conciliation or Arbitration herein, a. the parties shall continue to perform their respective obligations under the Contract unless they otherwise agree. Settlement of Dispute clause cannot be invoked by the Contractor, if the Contract has been mutually closed or 'No Demand Certificate' has been furnished by the Contractor or any Settlement Agreement has been signed between the Employer and the Contractor.</p> <p>18.2.8 It is agreed that Mechanism of resolution of disputes through arbitration shall be available only in the cases where the value of the dispute is less than Rs. 10 Crores.</p> <p>18.2.9 In case the disputed amount (Claim, Counter claim including. interest is Rs. 10 crores and above, the parties shall be within their rights to take recourse to remedies other than Arbitration, as may be available to them under the applicable laws after prior intimation to the other party. Subject to the aforesaid conditions, provisions of the Arbitration and Conciliation Act, 1996 and any statutory modifications or re-enactment thereof as amended from time to time, shall apply to the arbitration proceedings under this clause.</p> <p>18.2.10 In case, multiple arbitrations are invoked (whether sub-judice or arbitral award passed) by any party to under this contract, then the cumulative value of claims (including interest claimed or awarded) in all such arbitrations shall be taken in account while arriving at the total claim in dispute for the subject contract for the purpose of above clause. Disputes having cumulative value of less than 10 crores shall be resolved through</p>	
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ADDITIONAL TERMS AND CONDITIONS FOR GAS ANALYSER CABINET FOR RAIGARH TPP (PH-II), 2X800 MW MW RAIPUR (PH-II) TPP, 2X800 MW MIRZAPUR (PH-I), 2X800 MW KAWAI (PH-II), 2X800 MW KAWAI (PH.-III) & MAHAN USTPP (PH-III) PROJECT, (ANNEXURE I)

		<p>arbitration and any additional dispute shall be adjudicated by the court of competent jurisdiction.</p> <p>18.3 In case of Contract with Public Sector Enterprise (PSE) or a Government Department, the following shall be applicable:</p> <p>In the event of any dispute or difference relating to the interpretation and application of the provisions of commercial contract(s) between Central Public Sector Enterprises (CPSEs)/ Port Trusts inter se and also between CPSEs and Government Departments/Organizations (excluding disputes concerning Railways, Income Tax, Customs & Excise Departments), such dispute or difference shall be taken up by either party for resolution through AMRCD (Administrative Mechanism for Resolution of CPSEs Disputes) as mentioned in DPE OM No. 05/0003/2019-FTS-10937 dated 14-12-2022 as amended from time to time.</p>	
19.	Jurisdiction	<p>This contract shall be governed by the Law for the time being in force in the Republic of India. Subject to clause(s) mentioned above of this contract, the Civil Court having original Civil Jurisdiction at Haridwar shall alone have exclusive jurisdiction in regard to all matters in respect of the Contract.</p>	
20.	Force Majeure	<p>"Force Majeure" shall mean circumstance which is:</p> <ol style="list-style-type: none"> beyond control of either of the parties to contract, either of the parties could not reasonably have provided against the event before entering into the contract, having arisen, either of the parties could not reasonably have avoided or overcome, and is not substantially attributable to either of the parties <p>And</p> <p>Prevents the performance of the contract,</p> <p>Such circumstances include but shall not be limited to:</p> <ol style="list-style-type: none"> War, hostilities, invasion, act of foreign enemies. Rebellion, terrorism, revolution, insurrection, military or usurped power, or civil war. Riot, commotion or disorder by persons other than the contractor's personnel and other employees of the contractor and sub-contractors. Strike or lockout not solely involving the contractor's personnel and other employees of the contractor and sub-contractors. Encountering munitions of war, explosive materials, ionizing radiation or contamination by radio-activity, except as may be attributable to the contractor's use of such munitions, explosives, radiation or radio- activity. Natural catastrophes such as earthquake, tsunami, volcanic activity, hurricane or typhoon, flood, fire, cyclones etc. Epidemic, pandemic etc. <p>The following events are explicitly excluded from Force Majeure and are solely the responsibilities of the non-performing party: a) any strike, work-to-rule action, goslow or similar labour difficulty (b) late delivery of equipment or material (unless caused by Force Majeure event) and (c) economic hardship.</p>	

ADDITIONAL TERMS AND CONDITIONS FOR GAS ANALYSER CABINET FOR RAIGARH TPP (PH-II), 2X800 MW MW RAIPUR (PH-II) TPP, 2X800 MW MIRZAPUR (PH-I), 2X800 MW KAWAI (PH-II), 2X800 MW KAWAI (PH.-III) & MAHAN USTPP (PH-III) PROJECT, (ANNEXURE I)

		<p>If either party is prevented, hindered or delayed from or in performing any of its obligations under the Contract by an event of Force Majeure, then it shall notify the other in writing of the occurrence of such event and the circumstances thereof within 15 (fifteen) days after the occurrence of such event.</p> <p>The party who has given such notice shall be excused from the performance or punctual performance of its obligations under the Contract for so long as the relevant event of Force Majeure continues and to the extent that such party's performance is prevented, hindered or delayed. The Time for Completion shall be extended by a period of time equal to period of delay caused due to such Force Majeure event.</p> <p>Delay or non-performance by either party hereto caused by the occurrence of any event of Force Majeure shall not</p> <ol style="list-style-type: none"> Constitute a default or breach of the Contract. Give rise to any claim for damages or additional cost expense occasioned thereby, if and to the extent that such delay or non-performance is caused by the occurrence of an event of Force Majeure. <p>BHEL at its discretion may consider short closure of contract after 1 year of imposition of Force Majeure in line with extant guidelines. In any case, Supplier/Vendor cannot consider deemed short-closure after 1 year of imposition of Force Majeure.</p>	
21.	Cartel Formation	<p>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.</p>	
22.	Suspension of Business Dealings with Suppliers Contractors	<p>The offers of the bidders who are under suspension as also the offers of the bidders, who engage the services of the banned firms / principal / agents, shall be rejected. The list of banned firms is available on BHEL web site www.bhel.com.</p> <p>If any bidder / supplier / contractor during pre-tendering / tendering / post tendering / award / execution / post-execution stage indulges in any act, including but not limited to, mal-practices, cheating, bribery, fraud or and other misconduct or formation of cartel so as to influence the bidding process or influence the price or tampers the tendering process or acts or omits in any manner which tantamount to an offence punishable under any provision of the Indian Penal Code, 1860(Bhartiya Nyaya Samhita 2023) or any other law in force in India, or does anything which is actionable under the Guidelines for Suspension of Business dealings, action may be taken against such bidder / supplier / contractor as per extant guidelines of the company available on www.bhel.com and / or under applicable legal provisions. Guidelines for suspension of business dealings is available in the webpage: http://www.bhel.com/vendor_registration/vendor.php.</p>	
23.	Action against Bidder/vendor/	<p>In order to protect the commercial interests of BHEL, BHEL shall take action against supplies / contractors by way of suspension of business dealings,</p>	

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	<p>supplier/ contractor in case of default</p> <p>who either fail to perform or are in default without any reasonable cause, cause loss of business/ money/ reputation, indulge in malpractices, cheating, bribery, fraud or any other misconduct or formation of cartels so as to influence the bidding process or influence the price etc.</p> <p>Suspension of Business Dealings could be in the form of “Hold” or “Banning” a supplier/ contractor or a bidder and shall be as per “Guidelines for Suspension of Business Dealings with Suppliers/ Contractors” available at BHEL’s website “https://www.bhel.com/guidelines-suspension-business-dealings-supplierscontractors”.</p>	
24. Conflict of Interest	<p>A bidder shall not have conflict of interest with other bidders. Such conflict of interest can lead to anti-competitive practices to the detriment of Procuring Entity's interests. The bidder found to have a conflict of interest shall be disqualified. A bidder may be considered to have a conflict of interest with one or more parties in this bidding process, if:</p> <ul style="list-style-type: none"> a) they have controlling partner (s) in common; or b) they receive or have received any direct or indirect subsidy/ financial stake from any of them; or c) they have the same legal representative/agent for purposes of this bid; or d) they have relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the bid of another Bidder, or e) Bidder participates in more than one bid in this bidding process. Participation by a Bidder in more than one Bid will result in the disqualification of all bids in which the parties are involved. However, this does not limit the inclusion of the components/ sub-assembly/ Assemblies from. one bidding manufacturer in more than one bid; or f) In cases of agents quoting in offshore procurements, on behalf of their principal manufacturers, one agent cannot represent two manufacturers or quote on their behalf in a particular tender enquiry. One manufacturer can also authorise only one agent/dealer. There can be only one bid from the following: <ul style="list-style-type: none"> 1. The principal manufacturer directly or through one Indian agent on his behalf; and 2. Indian/foreign agent on behalf of only one principal, or g) A Bidder or any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the contract that is the subject of the Bid, or h) In case of a holding company having more than one independently manufacturing units, or more than one unit having common business 	





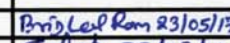
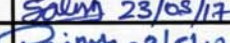
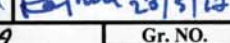



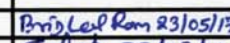
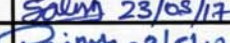
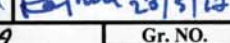



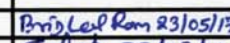
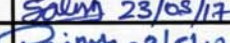
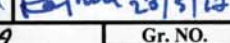

ADDITIONAL TERMS AND CONDITIONS FOR GAS ANALYSER CABINET FOR RAIGARH TPP (PH-II), 2X800 MW MW RAIPUR (PH-II) TPP, 2X800 MW MIRZAPUR (PH-I), 2X800 MW KAWAI (PH-II), 2X800 MW KAWAI (PH.-III) & MAHAN USTPP (PH-III) PROJECT, (ANNEXURE I)


		ownership/management, only one unit should quote. Similar restrictions would apply to closely related sister companies. Bidders must proactively declare such sister/ common business/ management units in same/similar line of business."	
25.	Regarding ITC based evaluation bid	Kindly note that this bid/tender has been availed with 100% ITC (Input tax credit) based evaluation. Bidders shall have to enter their Prices inclusive of all taxes including GST during participation in bid on GeM portal and also bidders to add/input the applicable GST amount in percentage separately as per provision made by GeM in the system. Kindly confirm your compliance to the above and submit your offer on GeM portal accordingly.	
26.	Deviation: (if any)	Kindly confirm that there is no deviation with respect to BHEL Specifications. However, if there is any deviation with respect to the tender documents then the same should be brought out specifically in separate annexure marked Deviations (Technical/Commercial).	


SPECIAL NOTE FOR BIDDERS:



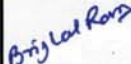

Following documents are an integral part of this tender enquiry and endorsed copies of these documents (duly signed and stamped on each page, as a token of acceptance) are to be uploaded along with offer on e-procurement portal.



1. Please submit replica of Price schedule (without prices) showing "quoted" in place of price along with techno-commercial bid (Part-I)
2. Please submit signed & Stamped copy (each page) of duly filled of confirmation column of "Additional Terms & Conditions (Annexure-I)" and its clause wise supporting documents where required.
3. The other terms & conditions shall be as per General terms and conditions on GeM 4.0 (Version 1.21).



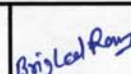
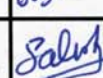
दिनांक एवं हस्ताक्षर SIGN & DATE सामग्री SUPERSEDES DES INVE कॉपी मुद्रा संख्या की		उत्पाद मानक (हीप : हरिद्वार) PRODUCT STANDARD (HEEP: HARIDWAR)		TG60530 पृष्ठ9 का 1 Pagl Of 9																																																	
		GENERATOR GAS ANALYSER CABINET (MICROPROCESSOR BASED)																																																			
COPYRIGHT AND CONFIDENTIAL The information on this	1.0 INTRODUCTION:- This standard specifies the requirement of non-purge type, intrinsically safe, non-sparking, microprocessor based H2 gas analyzer housed in properly ventilated cabinet. Alternatively, explosion proof, intrinsically safe gas analyzer housed in properly ventilated cabinet may be offered.																																																				
	2.0 COMPLIANCE WITH STANDARD:- There is no national/international standard available on the above subject. However this standard is based on BHEL's experience.																																																				
स्लायडिगर एवं गोपनीय इस दस्तावे में दी गई सूचना भारत हेवी एलेक्ट्रिकल्स लिमिटेड की सम्पत्ति है इसका प्रसारण एवं प्रयोग के बिना की जाये प्रयोग की गति इसकी के बिना	3.0 TECHNICAL DETAILS OF FABRICATED CABINET:- The cabinet shall preferably be of Rittal / Pyrotech make conforming to international/national standards and will be meeting general aesthetics and other technical requirements. The cabinet structure shall be close type with serviceable double door on front side. The rear side of the cabinet may be provided with door or cover. The cabinet will be with doors/covers of material CRCA galvanized steel sheet. The cabinet dimensions shall be 1000(W) x 800(D) with standard height (including base frame height) of 2200(H) or as specified in enquiry. The sheet thickness shall not be less than 2.0 mm or as specified in enquiry/order. The paint shades will be as specified in the enquiry /order. The paint thickness shall not be less than 80 micron or as specified in enquiry/order. The degree of protection of the cabinet will be IP-54(As per IS 13947 (part-1) (assuming blanking of canopy for this purpose). The sheet steel (enclosure) shall be pre-treated through chemical cleaning (7 tank) process of rinsing, de-greasing, rinsing, de-rusting, rinsing, phosphating and rinsing. After surface preparation, one coat of Zinc phosphate primer conforming to IS2074, shall be applied. After the first coat is dried up completely, second coat of red oxide primer shall be applied. The dry film thickness of each coat shall be minimum 30 microns. Synthetic enamel paint conforming to IS2932 shall be used for finish coats. Minimum 2 coats of synthetic enamel with proper drying intervals shall be applied. The minimum paint thickness shall be 80 microns.																																																				
दिनांक एवं हस्ताक्षर SIGN & DATE 	<table border="1"> <tr> <td></td> <td></td> <td></td> <td></td> <td>नाम NAME</td> <td>दिनांक एवं हस्ताक्षर SIGNATURE & DATE</td> </tr> <tr> <td>TSX</td> <td>LALIT KUMAR</td> <td></td> <td>अनुवादक TRANSLATED BY</td> <td></td> <td></td> </tr> <tr> <td>QAX</td> <td>S. CHANDRA</td> <td></td> <td>निर्माणकर्ता WORKED BY</td> <td>BRIJ LAL RAM</td> <td> 23/05/17</td> </tr> <tr> <td>सहसम विभाग AGREED DEPTT.</td> <td>नाम NAME</td> <td>दिनांक एवं हस्ताक्षर DATE & SIGNATURE</td> <td>जांचकर्ता CHECKED BY</td> <td>SATISH KUMAR</td> <td> 23/05/17</td> </tr> <tr> <td></td> <td></td> <td></td> <td>पर्यवेक्षणकर्ता SUPERVISED BY</td> <td>RAJNISH GUPTA</td> <td> 23/5/17</td> </tr> <tr> <td colspan="3"> SUPERSEDES </td> <td>स्वीकृति APPROVED :</td> <td colspan="2">  B.S. RANA (AGM/C.I.E) </td> </tr> <tr> <td>REV.NO.</td> <td>11</td> <td></td> <td>निर्माण PREPARED :</td> <td>जारी ISSUED : TSX HEEP (HARDWAR)</td> <td>दिनांक DATE : 29.07.1998</td> </tr> <tr> <td>CHANGE ADVICE NO.</td> <td>23.05.17</td> <td>TGE(CIE)-17-22</td> <td>23.05.17</td> <td></td> <td></td> </tr> </table>									नाम NAME	दिनांक एवं हस्ताक्षर SIGNATURE & DATE	TSX	LALIT KUMAR		अनुवादक TRANSLATED BY			QAX	S. CHANDRA		निर्माणकर्ता WORKED BY	BRIJ LAL RAM	 23/05/17	सहसम विभाग AGREED DEPTT.	नाम NAME	दिनांक एवं हस्ताक्षर DATE & SIGNATURE	जांचकर्ता CHECKED BY	SATISH KUMAR	 23/05/17				पर्यवेक्षणकर्ता SUPERVISED BY	RAJNISH GUPTA	 23/5/17	SUPERSEDES			स्वीकृति APPROVED :	 B.S. RANA (AGM/C.I.E)		REV.NO.	11		निर्माण PREPARED :	जारी ISSUED : TSX HEEP (HARDWAR)	दिनांक DATE : 29.07.1998	CHANGE ADVICE NO.	23.05.17	TGE(CIE)-17-22	23.05.17		
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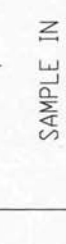
दिनांक एवं हस्ताक्षर SIGN & DATE		उत्पाद मानक (हीप : हरिद्वार) PRODUCT STANDARD (HEEP: HARIDWAR)		TG60530	
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SUPERSE DES					
समीची पृष्ठी					
COPYRIGHT AND CONFIDENTIAL The information on this document is the property of	4.0 TECHNICAL PARAMETERS OF GAS ANALYSER EQUIPMENT				
स्वतः अधिकार एवं गोपनीय इस दस्तावेज में दी गई सूचना भारत हेतु एप्लिकेशन स्पेसिफिकेशन है, इसका प्रयोग एवं प्रसारण केवल ही बि.पी.सी. द्वारा	4.1 The gas analyser shall be of micro-processor based design. 4.2 The measurement may be based on thermal conductivity / gas density principles with typical schematics as per Figure-1. Unless specified otherwise in enquiry/order. 4.3 The three range gas analyser shall have local display of following measuring ranges:- I. 0-100 vol% CO ₂ in air II. 0-100 vol% H ₂ in N ₂ III. 90-100 % H ₂ in air 4.4 One 4-20mA output and three potential free contacts to identify the each of active range will be provided to ensure correlation of the range with output. 4.5 Explosion proof JB will be provided in the cabinet for external connections terminations (refer Ex-Proof JB drg of the specification).				
दिनांक एवं हस्ताक्षर SIGN & DATE	5.0 MOUNTING ACCESSORIES:-				
दिनांक एवं हस्ताक्षर SIGN & DATE	5.1 Pr. regulator & relief valve (Material SS) (PR+RV) 5.2 Filters (FLT) 5.3 Tube Fitting (Material SS) 5.4 Needle valves / NRVs / Multi way valves (Material SS) (NV/ NRV/BV2/BV5 etc) 5.5 Flow / Rota meter (FM) 5.6 Pressure Indicator / Gauge (PI1/PI2) 5.7 Ring type sensor (Applicable for code no W90418108072 to generate low flow alarm) 5.8 Bulk head connectors (Material SS) 5.9 Explosion proof JB / electrical accessories required for the system. 5.10 An oil trapper (OT) / separating vessel with transparent cover and drain valve may be provided in the cabinet. The inlet port of the vessel may be connected to sample inlet from the generator. The outlet port may be taken as sample gas to the analyser. 5.11 Suitable flame arrestors (FA) may be provided at sampling inlet/outlet of the analyzer to avoid possibility of fire propagation. 5.12 Above Items to be suitably mounted inside the GA cabinet and should be firmly secured to avoid any damage due to vibration / shock during transportation. 5.13 Test gas cylinders of H ₂ gas (90% H ₂ in N ₂) and (100% H ₂) gas be provided for calibration checking at zero / span limits at site. Additionally, CO ₂ cylinder with 100% Co ₂ will be supplied. All these cylinders will be with tubing (for internal / external mounting) for site calibration. 5.14 An acrylic/ stainless steel name plate with inscription "GENERATOR GAS ANALYSER CABINET" will be provided in front top of the cabinet. 5.15 All above accessories shall be of makes as indicated in specification. The alternate makes will be subject to approval from BHEL. The vendor will furnish complete BOM along with offer for approval. The GA drawing /BOM will be approved by BHEL/Client.				
सामग्री सूची संख्या INVENTORY	REV. NO. 11	निर्माणकर्ता WORKED BY	BRIJ LAL RAM	23/05/17	23/05/17
P-6163		जांचकर्ता CHECKED BY	SATISH KUMAR	23/05/17	23/05/17


रिजर्व एवं हस्ताक्षर SIGN & DATE		उत्पाद मानक (हीप : हरिद्वार) PRODUCT STANDARD (HEEP: HARIDWAR)		TG60530	
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सुपरसे DES	भारतीय पूरी	6.0 POWER SUPPLY The system shall be suitable for 240 VAC+/- 10%, 50 Hz +/- 5% or as specified in the enquiry/ order. Suitable power surge protection system to be provided to save analyzer from any variation in supply voltage.			
COPYRIGHT AND CONFIDENTIAL The information on this document is the property of		7.0 ACCURACY The parameters within the limits as specified below.			
स्वाधिकार एवं गोपनीय इस दस्तावेज में दी गई सूचना भारत देशी उपकरणों/समय विनिर्देश की सुरक्षा है इसका प्रयोग एवं प्रसारण अन्य से किसी भी प्रकार		Zero Drift $\leq 1\%$ of smallest possible measuring range/week. Sensitivity/span Drift $\leq 0.5\%$ of smallest possible measuring range. Inherent linear drift $\leq 1\%$ of span/week. Repeatability / Accuracy $\geq 1\%$ of span Temperature effect $\leq 1\%$ of span per 10 degree cel based on temp at the time of calibration Flow effect $\leq 0.5\%$ of span for variation in flow by +/- 10L/hr from rated flow Response time $\leq T 90 < 5$ Sec. Detection limit $\leq 1\%$ of span.			
रिजर्व एवं हस्ताक्षर SIGN & DATE		8.0 OUTPUT The 4-20 mA output shall be suitable for load burden of at least up to 500 ohms. There shall not be any variation in output during burden change from short circuit to 500 ohms.			
रिजर्व एवं हस्ताक्षर SIGN & DATE		9.0 INLET / OUTLET CONNECTIONS 9.1 The end connection shall be 1/8" BSP or 1/4" NPT (NPT is preferred to avoid any chances of leakage). Suitable adapters / unit nuts /bulk head connectors shall be provided for connection to minimum 6mm OD tubing. All connections shall be done with 6mm OD, 4mm ID stainless steel tubing. The outlet vents shall be joined inside the cabinet with NRV for protection of gas analyser from back pressure. Only single vent will terminate for venting purpose. The bulk head connection for vent pipe should be of size NB25 using suitable adopters and sample inlet/outlet shall be provided on right or left side of the cabinet. Inscription plates for designations will be provided on each item in the cabinet indicating application. 9.2 Depending upon site requirements the external cable may enter from bottom or top of the cabinet. Hence the cable entry will be customer / site selectable.			
रिजर्व एवं हस्ताक्षर SIGN & DATE		10.0 AMBIENT TEMPERATURE The gas analyser equipment shall be suitable for ambient temperature 0-50 Degree Celsius and maximum relative humidity of 0-95%.			
भारतीय पूरी	REV. NO. 11	निर्माणकर्ता WORKED BY	BRIJ LAL RAM	23/05/17	23/05/17
भारतीय पूरी	REV. NO. 11	जांचकर्ता CHECKED BY	SATISH KUMAR	23/05/17	23/05/17


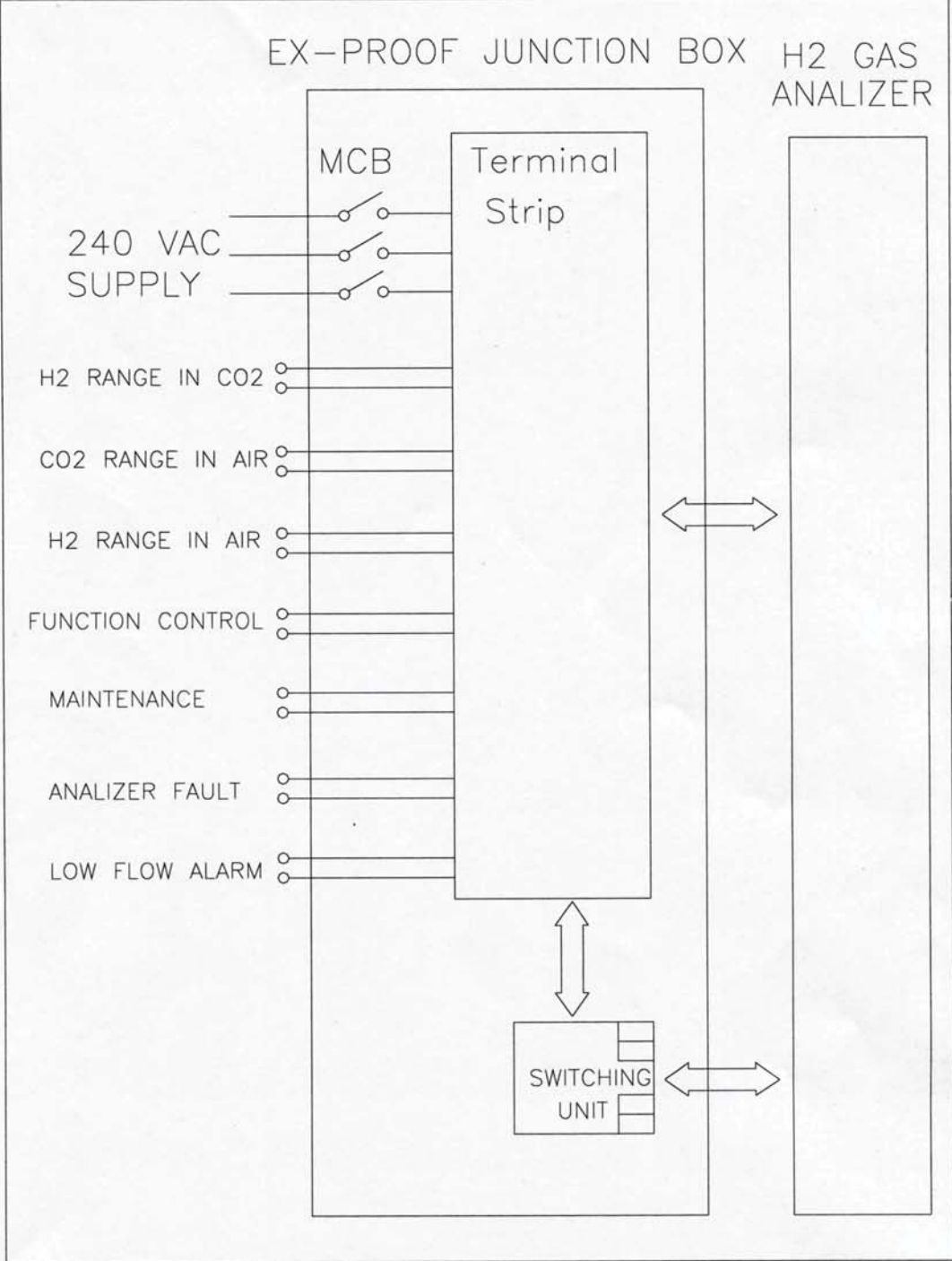



निर्माक एवं हस्ताक्षर SIGN & DATE		उत्पाद मानक (हीप : हरिद्वार) PRODUCT STANDARD (HEEP: HARIDWAR)		TG60530	
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सुपरसेड INVENTORY	11.0 TESTING 11.1 Type Testing:- Type test certificates for suitability of the analyser for hazardous area application will be furnished with the offer. These certificates from international certifying authorities (CENLEC / FM / CSA / TUV) will be acceptable. However, these will not be older than 5 years. The analyser has to be suitable for H2 purity measurement in generators with H2 cooling (Zone 2, Group IIC, Ex ib or better application). 11.2.0 Routine testing : Each equipment shall be subjected to following tests at supplier's works:- 11.2.1 Layout / visual checking as per approved layout / schematic drawings. 11.2.2 Meggering of power parts / TB's shall be done with the help of 500V megger (electronic parts to be isolated/ shorted during this testing). IR value should be more than 20 M Ohms. 11.2.3 Gas tightness test for sample gas path to be done at air pressure of 5.0 Kg/cm ² . No leakage should be observed 30 minutes. 11.2.4 Calibration test for analyser for different composition of gas mixtures in 'H2 in air' measuring range (minimum 5 points) will be carried out at vendor's Works. The results have to be within specified accuracy limits. 11.2.5 The calibration test certificates from the principle may be verified for calibration checking for the remaining two ranges. 11.2.6 Power supply variation test to check repeatability accuracy as per Clause 7.0 for H2 in air range. 12.0 ACCEPTANCE NORMS : 12.1 Compliance to clause 11.1 12.2 routine tests as per clause 11.2 13.0 DOCUMENTS: 13.1 Catalogues:-Two copies of descriptive catalogues in English language giving technical details like allowable maximum load burden, response time, power consumption, dimensional details and external terminal details for customer's interconnections etc shall be furnished along with the offer. 13.2 Drawings:- Two copies of the schematic diagram, complete BOM with make/type of accessories and wiring /layout diagram of the equipment giving terminal details and size of the terminals shall also be furnished along with the offer for approval. These shall also later form part of O&M manual.				
समस्त अधिकार एवं गोपनीय इस दस्तावेज में दी गई सूचना भारत हेवी एलेक्ट्रिकल्स लिमिटेड की संपत्ति है इसका प्रकाश एवं प्रसारण बिना लिखित अनुमति के किये जाने पर कानूनी कार्रवाई की जायेगी।					
निर्माक एवं हस्ताक्षर SIGN & DATE 	26/6/17				
श्री पूर्ण संख्या INVENTORY NO. 26163	REV. NO. 11		निर्माणकर्ता WORKED BY BRIJ LAL RAM		23/05/17
			जांचकर्ता CHECKED BY SATISH KUMAR		23/05/17

RETURN & SIGNATURE SIGN & DATE SUPERSEDES INVENTORY		उत्पाद मानक (हीप : हरिद्वार) PRODUCT STANDARD (HEEP: HARIDWAR)		TG60530	
				पृष्ठ 9 Page 5	का 5 Of 9
<p>13.3 O&M Manuals:- The complete O&M manuals in English version giving the details circuit diagrams, trouble shooting instructions, servicing instructions etc., shall be furnished along with main supply as per quantity mentioned in the enquiry/order. One CD-ROM for the O&M will be supplied to BHEL/Haridwar.</p> <p>14.0 PACKING: The analyser shall be fixed with the help of technological fixtures before dispatch and packed in thermo cole boxes placed in cartons or cases with adequate cushioning material to minimize movements of internals and to ensure that the equipment is capable of withstanding transit risk without damage. The package shall be adequate to withstand loading/unloading jerks and transit movements by rail/ road. The supplier may also supply the analyser / electronics as loose for assembly later at site.</p> <p>15.0 SPARE PARTS:- Recommended spare parts list for 3 years trouble free operation and mandatory spares / consumable will be submitted for BHEL's reference along with the offer. The offers for spares shall indicate breakup of prices for individual parts. BHEL reserves the right to order the spare parts either along with the main equipment or separately in which case the validity of the offer for spare parts shall be extended by 6 months from the date of placement of the order for main equipment.</p> <p>16.0 MARKINGS</p> <p>16.1 The manufacturer's identification number of the instrument in the English shall be marked in suitable location and the same shall be mentioned in the relevant test certificates.</p> <p>16.2 The BHEL material code number as given in the enquiry / order shall be embossed in each item. The following details shall be marked on each packing case.</p> <ol style="list-style-type: none"> Manufacturer's name BHEL order no BHEL material code no BHEL monogram will be fixed on front top (right side). This will be supplied loose by BHEL along with PO or during inspection. 					
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स्वत्वाधिकार एवं गोपनीय इस दस्तावेज में दी गई सूचना भारत भारती लिमिटेड की संपत्ति है इसका प्रयोग एवं प्रकाशन अन्य से किसी भी प्रकार किया जाये तो कि कंपनी के हित में हानिकारक हो न किया जाय।					
RETURN & SIGNATURE SIGN & DATE 					
श्री सूची संख्या INVENTORY NO. P-6163	REV. NO. 11		निर्माणकर्ता WORKED BY BRIJ LAL RAM	Brij Lal Ram 23/05/17	
			जांचकर्ता CHECKED BY SATISH KUMAR	Satish 23/05/17	

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				PRODUCT STANDARD (HEEP: HARIDWAR)		पृष्ठ 9	का 6				
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SUPERSEDES INVENTORY		<p>17.0 QUALITY PLAN & INSPECTION</p> <p>Three copies of complete QA plan giving the details of tests to be carried out during the various stages of manufacture shall be furnished to BHEL for approval along with the offer in BHEL format. BHEL reserves its right to depute their / customer's representative during final testing at supplier's works. The supplier will arrange this inspection without any additional cost. The BOM will be as per BHEL approved schematics. The reference of the scheme may be given in QAP</p>									
COPYRIGHT AND CONFIDENTIAL The information on this documents is the property of Bharat Heavy Electrical Limited. It must not be used directly or indirectly in any way detrimental to the interest of the company		<p>18.0 TEST AND GUARANTEE CERTIFICATES:</p> <p>Three copies of test certificates for routine & type tests and guarantee certificates in English shall be furnished while executing the order. The equipment will be warranted for 24 months trouble free operation from the date of commissioning or 30 months from date of supply, whichever is earlier (unless, otherwise specified in the enquiry / order).</p>									
स्वत्वाधिकार एवं गोपनीय इस दस्तावेज में दी गई सूचना भारत भारती एलेक्ट्रिकल्स लिमिटेड की संपत्ति है इसका प्रयोग एवं प्रकाशन के बिना भारत भारती एलेक्ट्रिकल्स लिमिटेड के बिना नहीं किया जा सकता।		<p>19.0 ERECTION AND COMMISSIONING</p> <p>a) Installation:-</p> <p>The supplier shall arrange satisfactory installation of supplied system and charge the cabinet suitably. With help of test/ sample cylinder, check function of H2 gas analyser system for all three ranges suitably.</p> <p>b) Commissioning:-</p> <ol style="list-style-type: none">1) The supplier shall arrange satisfactory commissioning of analyser.2) MOM to be signed with End customer and BHEL Site engineer.3) System will be kept under observation for the warranty period.4) Within this warranty period, if any part of system don't perform satisfactory, same to be repaired or replaced without any commercial implication to BHEL									
		<p>20.0 CROSS REFERRED STANDARDS</p> <table><tr><td>I)</td><td>IS5</td></tr><tr><td>II)</td><td>IS9000.</td></tr><tr><td>III)</td><td>IS13947 (Part-I)</td></tr></table>						I)	IS5	II)	IS9000.
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III)	IS13947 (Part-I)										
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श्री सूची संख्या INVENTORY NO.		REV. NO.		निर्माणकर्ता WORKED BY		BRIJ LAL RAM					
P-6163		11		जांचकर्ता CHECKED BY		SATISH KUMAR					
											
											

श्री सुनील कुमार INVENTORY NO. P-6163	दिनांक एवं SIGN & DATE 	स्वत्वधिकार एवं गोपनीय इस दस्तावेज में दी गई सूचना भारत भारती एल्यूमीनियम लिमिटेड की संपत्ति है। इसका प्रत्यक्ष एवं अप्रत्यक्ष रूप से किसी भी तरह उपयोग जो कि कंपनी के हित में हानिकारक हो न किया जाए।	COPYRIGHT AND CONFIDENTIAL The information on this document is the property of Bharat Heavy Electrical Limited. It must not be used directly or indirectly in any way detrimental to the interest of the company.	SUPERSEDES INVENTORY	दिनांक एवं SIGN & DATE
REV. NO. 11	LEGENDS BV2 / BV5 : TWO / FIVE WAY VALVE FA : FLAME ARRESTOR FLT : FILTER FM : FLOW METER NRV : NON RETURN VALVE DT : OIL TRAPPER PI : PRESSURE INDICATOR / GAUGE PR + RV : PRESSURE REGULATOR & RELIEF VALVE TGC01 100% H2 GAS TGC02 90% H2 GAS TGC03 100% CO2 GAS	LINE SIZE CABINET INTERNAL PIPING WITH MINIMUM 6 MM OD & 4MM ID. FOR VENT LINE END SIZE 25MM OD BY USING SUITABLE ADAPTOR.	INCOMING SUPPLY 240VAC P N E	GAS ANALYSER 4-20 mA MR-1 MR-2 MR-3	
उत्पाद मानक (हीप : हरिद्वार) PRODUCT STANDARD (HEEP: HARIDWAR)	TG60530	पृष्ठ 9 का 7 Page 7 Of 9	Typical scheme for H2 gas analyser		
निर्माणकर्ता WORKED BY BRIJ LAL RAM	जांचकर्ता CHECKED BY SATISH KUMAR	दिनांक एवं SIGN & DATE 	दिनांक एवं SIGN & DATE		
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SIGN & DATE SUPERSEDES INVENTORY		<h2 style="margin: 0;">उत्पाद मानक (हीप : हरिद्वार)</h2> <h3 style="margin: 0;">PRODUCT STANDARD (HEEP: HARIDWAR)</h3>	TG60530 पृष्ठ 9 का 8 Page 8 Of 9																																																						
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		Typical EX-Proof JB drg.			
COPYRIGHT AND CONFIDENTIAL The information on this documents is the property of Bharat Heavy Electrical Limited. It must not be used directly or indirectly in any way detrimental to the interest of the company		<div style="text-align: center;"> EX-PROOF JUNCTION BOX H2 GAS ANALYZER </div> 			
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MANUFACTURER'S NAME AND ADDRESS			QUALITY PLAN					TO BE FILLED BY BHEL		TO BE FILLED BY BHEL				
BHEL	VENDOR'S NAME	ITEM			QP NO.									
				REV										
		DRG. NO.	AS PER PO	Page 1 of 1										
		REV	AS PER PO											
		REV	AS PER PO											
		SPEC.	AS PER PO											
SL. NO.	COMPONENT & OPERATIONS	CHARACTERISTICS		CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORDS		AGENCY			REMARKS
										M	B	N		
1	2	3		4	5	6	7	8	9	D	10			11

MANUFACTURER/SUBCONTRACTOR		LEGEND:	FOR CUSTOMER USE	APPROVED BY
		! RECORDS IDENTIFIED WITH 'TICK' SHALL BE ESSENTIALLY INCLUDED BY CONTRACTOR IN QA DOCUMENTATION.		
		M: MANUFACTURER / SUBCONTRACTOR B: BHEL / NOM. INSPECTION AGENCY N: CUSTOMER INDICATE 'P' PERFORM 'W' WITNESS AND 'V' VERIFICATION ALL 'W' INDICATED IN COLUMN 'N' SHALL BE 'CHP' OF CUSTOMER		

Self-Declaration Certificate

In line with Government Public Procurement (Preference to Make in India), Order 2017 vide No. P-45021/2/2017-B.E.-II dated 15.06.2017, 28.05.2018, 29.05.2019 and 04.06.2020, we hereby certify that we M/s Glotex Solutions Pvt Ltd with Percentage of Local Content 50 %, fall under the class I , as defined in above orders for the material against Tender Enquiry No.GEM/2024/B/5300409 indicated in the below table

<i>Class of Supplier</i>	<i>Please Tick appropriate Class (✓)</i>
<i>Local supplier 'Class I' meeting the requirement of minimum local content as 50%.</i>	✓
<i>Local supplier 'Class-II' meeting the requirement of local content as more than 20% and less than 50%.</i>	
<i>Non-Local supplier having local content less than 20%.</i>	

Details of location at which local value addition will be made is as follows:

Gujarat. India

We also understand, false declarations will be in breach of the Code of Integrity under Rule 175(1)(i)(h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under law.



Seal and Signature of Supplier