

ANNEXURE- 1

CHECK LIST

NOTE: - Suppliers are required to fill in the following details in their Letterhead and no column should be left blank

A	Name and Address of the Supplier		
B	GSTN No. the Supplier (Place of Execution of Contract / Purchase Order)		
C	Details of Contact person for this Tender	Name: Mr./ Ms. Designation: Telephone No: Mobile No: Email ID:	
D	EMD DETAILS	Not Applicable	
E	DESCRIPTION	APPLICABILITY (BY BHEL)	ENCLOSE BY BIDDER
i.	Whether Pre - Qualification Criteria is understood and provided proper supporting documents.	Applicable/ Not Applicable	YES / NO
ii.	Whether all pages of the Tender documents including annexures, appendices etc. are read and understood	Applicable/ Not Applicable	YES / NO
iii.	Audited Balance Sheet and profit & Loss Account for the last three years	Applicable/ Not Applicable	YES / NO
iv.	Copy of PAN Card & GST registration	Applicable/ Not Applicable	YES / NO
v.	Submission of MSE certificate as specified in Tender	Applicable/ Not Applicable	YES / NO
vi.	Offer forwarding letter / tender submission letter as per Annexure – 2	Applicable/ Not Applicable	YES / NO
vii.	Submission of Certificate of No Deviation as per Annexure – 3	Applicable/ Not Applicable	YES / NO
viii.	Declaration regarding Insolvency/ Liquidation/ Bankruptcy Proceedings as per Annexure – 4	Applicable/ Not Applicable	YES / NO
ix.	Declaration by Authorized Signatory as per Annexure – 5	Applicable/ Not Applicable	YES / NO
x.	Declaration by Authorized Signatory regarding Authenticity of submitted Documents Annexure – 6	Applicable/ Not Applicable	YES / NO
xi.	Submission of Non-Disclosure Certificate as per Annexure – 7	Applicable/ Not Applicable	YES / NO

xii.	Submission of Integrity Pact as specified in Tender as per Annexure – 8	Applicable/ Not Applicable	YES / NO
xiii.	Declaration confirming knowledge about Site Conditions as per Annexure – 9	Applicable/ Not Applicable	YES / NO
xiv.	Declaration reg. Related Firms & their areas of Activities as per Annexure – 10	Applicable/ Not Applicable	YES / NO
xv.	Declaration for relation in BHEL as per Annexure – 11	Applicable/ Not Applicable	YES / NO
xvi.	Declaration reg. minimum local content in line with revised public procurement as per Annexure – 12	Applicable/ Not Applicable	YES / NO
xvii.	Declaration regarding compliance to Restrictions under Rule 144 (xi) of GFR 2017 as per Annexure – 13	Applicable/ Not Applicable	YES / NO
xviii.	Bank Account Details for E-Payment as per Annexure – 14	Applicable/ Not Applicable	YES / NO
xix.	Power of Attorney for submission of tender as per Annexure – 15	Applicable/ Not Applicable	YES / NO
xx.	Proforma of Bank Guarantee for Earnest Money as per Annexure – 16	Applicable/ Not Applicable	YES / NO
xxi.	Proforma of treatment of cases regarding conflict of interest as per Annexure – 19	Applicable/ Not Applicable	YES / NO

NOTE: Strike off ‘YES’ or ‘NO’, as applicable. Tender not accompanied by the prescribed **above applicable documents** are liable to be summarily rejected.

DATE:

**Sign. of the
AUTHORISED SIGNATORY**

(With Name, Designation and Company seal)

Buyers Specific Additional Terms & Conditions**Item Name: Air Exhauster with IE4 Motor****Projects: Lara, Singrauli, Sipat, Singareni & Korba Project****1. Scope of Enquiry**

E-bids on GeM portal are invited from bidders for the supply of Air Exhauster with IE4 Motor (As per HE57008 Rev 11) as below description for tabulated Projects, as per requirement mentioned below:

Sl. No.	Material Code & Item Description	Project	Total Qty (set)	Lot No.	Tentative Date for Supply Completion
1	Material Code: WX9771612107 AIR EXHAUSTER WITH MOTOR (GSC AIR EXHAUSTER TYPE-E WITH PREMIUM EFFICIENCY CLASS-IE4 MOTOR, CONFORMING TO IS-12615 OR IEC:60034-30), SPEC: HE57008 REV: 11 Total Quantity = 16 Nos	NTPC SIPAT STPP STG-III	2 Nos.	1	20-06-27
2		SINGARENI TPP, 1 X 800 MW	2 Nos.	1	15-08-27
3		NTPC LARA STPP STG-II, NTPC LIMITED	2 Nos.	1	30-03-27
			2 Nos.	2	30-06-27
4		SINGRAULI STPP ST-III	2 Nos.	1	03-04-28
			2 Nos.	2	03-08-28
5		2X660 MW KORBA WEST CHHATTISGARH	2 Nos.	1	28-02-27
			2 Nos.	2	30-06-27

2. Consignee Details:

Sl. No.	Project Name	Site/ Project Address
1	NTPC SIPAT STPP STG-III	Sipat Super Thermal Power Project, Stage-III (1X800 MW) P.O: Ujjwal Nagar, District: Bilaspur, Chhattisgarh - 495555
2	1X800MW SINGARENI TPP, SCCL	The Project Manager, 1x800MW Singareni Thermal Power plant Stage-2, Pegadapally (Village), Jaipur (Mandal), Mancheria (Dist), 504216 Telangana
3	NTPC LARA STPP STG-II, NTPC LIMITED	BHEL Site office 2X800 MW NTPC LARA stage II project. Pusaur, Dist Raigarh, Chhattisgarh 496440
4	SINGRAULI STPP ST-III	BHEL Site office, 2X800 MW, SINGRAULI SUPER THERMAL POWER PROJECT, SHAKTI NAGAR, SONBHADRA Uttar Pradesh, 231222
5	2X660 MW KORBA WEST CHHATTISGARH STATE POWER GEN CO. LTD	EE (Construction Store), 2 x 660 MW, SCTPP, HTPS, KORBA WEST DISTT- KORBA. Chhattisgarh -495450

3. EARNEST MONEY DEPOSIT (EMD): NIL

Annexure A: Buyers Specific Additional Terms & Conditions in addition to GTC

Sl. NO.	Terms	Description	Your confirmation
1.	Confirmation to compliance of GeM GTC	General terms and conditions on GeM 4.0 (Version 1.29, dated 25.03.2026) or subsequent rules/policies issued by GeM shall be applicable. Please confirm.	
2.	Public Procurement (Preference to Make in India)	For this procurement, the local content to categorize, a supplier as a Class-I local supplier/ Class-II local Supplier, purchase preference to Class-I local supplier, is as defined in Public Procurement (Preference to Make in India), PPP-MII Order No. P-45021/ 2/ 2017-PP (BE-II) dtd. 04/06/2020 issued by DPIIT. In case of subsequent Orders issued by the respective Nodal Ministry, changing the definition of local content for the items of the NIT, the same shall be applicable even if issued after issue of this NIT, but before opening of Part-II bids against this NIT. Vendor to submit tender specific self-certificate (Annex-B) in line with PPP-MII Order No. P-45021/ 2/ 2017-PP (BE-II) dtd. 04/06/2020 clearly indicating percentage of local content. Please Confirm	
3.	Pre-Qualification Requirements (PQR)	The Pre-Qualification Requirements have been compiled and submit filled copy of Table and supporting PO copy, unpriced dispatch document, approved GA drawing, motor datasheet, characteristics curves etc. All the bidders should ensure submission of complete details and documents as called for in these 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.	
4.	Special Instruction of Technical requirement	Material specification as per Spec HE57008 rev 11, Type-E only. Motor type-IE4, Confirming to IS-12615 or IEC:60034-30) Anti-Vibrating pads (for all Exhausters) to be provided for limiting the vibration in limit as per clause 2.3.2 of specification HE 57008 rev-11. Refer HE57008 clause 2.3.7: Foundation Bolts (4 Nos of M16 & suitable length) with each Air Exhauster to be supplied by vendor. Paint shade shall be RAL 9002. 1 coat of Primer paint -75 DFT, 1 coat of Intermediate paint-75 DFT, Finish paint-50 DFT. Total DFT-200 microns. Or may change as per customer requirement during drawing approval. Refer HE57008 clause 3.8: Counter flange (inlet and outlet) including nut & Bolt shall be supplied with Each Exhauster. Refer HE57008 clause 2.3.1: Air Exhausters to be supplied in Pairs as per Fig-2 of HE57008 (Mirror orientation). Kindly confirm that quoted offer by you have been complied all technical requirements as given in tender documents and submit all documents to BHEL as per tender specifications and drawings without any deviations.	
5.	Quality Requirement	➤ Bidders to submit endorse copy of BHEL SQP QA/BE/QP/307 Dt. 27.02.2025. ➤ Bidders to confirm that inspection shall be by done by BHEL Nominated inspection agency (M/s QUEST) as per finally BHEL/ customer approved QP. ➤ BHEL approved QP shall be followed in totality. BHEL can modify / changes in above QP during QP approval. ➤ Please note that BHEL will pay directly to BHEL's nominated TPI.	
6.	Motor Make	Bidder to confirm that IE4 motor shall be used from following manufacturer only: 1. CGL, Ahmednagar 2. ABB, Faridabad/ Bangalore 3. BBL, Mumbai 4. Jyoti, Badodara 5. MARATHON ELECTRIC, Kolkata 6. NGEF, Bangalore 7. LHP, Solapur	
7.	Price basis, Evaluation Currency, Firm prices & Transit	Prices should be quoted on Ex works freight Prepaid up to LARA, SINGARAULI, SIPAT, KORBA & SINGRENI Project basis i.e. including freight, packing & forwarding charges, GST etc. The evaluation currency for this tender shall be INR.	

	Insurance	Price will remain firm and fixed during entire execution of tender/supply. Transit insurance shall be arranged by BHEL and not to be included in the prices.	
8.	Consignee Address Declaration	Consignee mentioned in GeM enquiry may be different. However, material to be dispatched to mentioned address.	
9.	Evaluation criteria	Evaluation will be done on the basis of total landed cost to BHEL , with cost involved for delivery up to both projects i.e. Sipat & Singareni site (considering material cost, taxes & duties, Freight etc.	
10.	Payment Terms	Payment shall be made within 45/ 60/ 90 days (as applicable for MSE, Medium and Non-MSME bidders respectively) from the material entry date in BHEL, subject to submission of non-discrepant documents by the vendor, uploading of all documents on BHEL's SUVIDHA portal at the time of dispatch, and the acceptance of material by BHEL after receipt. <u>Note: This is in supersession of 10 days' time as provided in Clause 12 of GeM GTC and also 45 days from CRAC as provided in the standard format of GeM Bid under Payment Timelines.</u> In line with MSME Gazette Notification dated 30-06-2026: MSME enterprises (MSMEs), the settlement of invoice shall be only through any of the TReDS platform (i.e (1) RXIL, (2) MI exchange, (3) Invoicemart, (4) KReDX and (5) C2FO , authorized by the Reserve Bank of India. Such MSME suppliers to select their preferred TReDS platform before award of contract so that the data is captured in the Order /Contract database/ Suvidha Portal.	
11.	DIGITALLY SIGNED INVOICE:	For supply orders placed under this GEM Tender Irrespective of the value of the invoice amount, the bidder / vendor should necessarily upload the dispatch documents & invoice details on BHEL SUVIDHA portal at https://suvidha.bhel.in/suvidha/ . All documents as per PO checklist, along with additional documents (if any), must be uploaded on the portal. It is mandatory that tax invoices with a net amount (including taxes) exceeding Rs five lakhs uploaded on the portal are digitally signed using a Class 3 Digital Signature Certificate (DSC) issued by a licensed Certifying Authority. Submission of invoice document in hard copy is allowed for invoices with a net amount (including taxes) equal to and up to Rs five lakhs, in case they were not digitally signed and uploaded on the portal. Vendor invoice cannot be processed in absence of the above.	
12.	Document submission & approval	Drawings/Data sheets, Quality Plan etc. as called for in the specifications shall be submitted for approval to BHEL for BHEL approval within 30 days of purchase order . Approved documents/QP are to be followed by the supplier without any price implication. Any delay in delivery on account of late submission of drawings/data sheets/QAP/documents shall be to vendors account. BHEL will arrange the approval of the drawings/data sheets/ documents within 30 days of their receipt provided those are complete in all respect. Delays in approval shall be dealt on merit basis.	
13.	Manufacturing-Clearance	In case of ordering, vendor has to take manufacturing clearance from BHEL before starting manufacturing of material. No manufacturing is to be started without getting clearance from BHEL. Kindly confirm.	
14.	Manufacturing cum Delivery Period	Kindly quote your minimum delivery period in no. of weeks. (time taken including manufacturing + inspection by BHEL TPIA+ 07 days for MDCC issuance and up to Dispatch) From the date of Manufacturing Clearance..... <i>"In case vendor/ bidder not mentioned above period, 4 Months from manufacturing clearance will be considered."</i>	
15.	MDCC clause	Material shall be dispatched only after issue of material dispatch clearance certificate (MDCC) by BHEL. All test certificates and relevant documents are to be sent to BHEL before dispatch of material for issue of MDCC, which will be issued after review of test certificates etc. MDCC will be issued within 07 days of receipt of these documents once found complete in all respects. In case of any delay on account of BHEL in issuing MDCC, delivery shall be extended by no. of days in excess of 7 days taken by BHEL in issuing	

		MDCC and delays shall be dealt on merit basis. In case any material is dispatched without MDCC and any loss is incurred by Supplier/Vendor for any reason whatsoever, BHEL shall not be responsible in any manner to compensate the supplier in this regard. Material is to be dispatched within 07 days of receipt of MDCC from BHEL without waiting for PO amendment.	
16.	Guarantee	Kindly confirm that all equipment shall be guaranteed for trouble free & satisfactory operation for minimum period of 18 months from the date of delivery or 12 months from date of commissioning, whichever is earlier. Please note that offers with guarantee period lesser than above mentioned guarantee period may result in rejection of the offer.	
17.	Liquidated Damages	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, the Buyer 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 (LOT-WISE) 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. The date of dispatch mentioned on LR/GR would be treated as the date of delivery for penalty purposes.	
18.	BID to RA	Applicable as per GeM NIT (H1 Elimination)	
19.	Offer Validity	As per GeM NIT (120 Days)	
20.	Settlement of Dispute, CONCILIATION & ARBITRATION:	Settlement of Dispute 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 Designated Officer / IEM for amicable resolution by the parties. Designated Officer / IEM 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. 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 'CONCILIATION' Clause. 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). 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. ARBITRATION: 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 Arbitral Institution and such dispute to be adjudicated by Sole Arbitrator appointed in accordance with the Rules of said Arbitral Institution. 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, 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.	

		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 Institutions (shall be identified by the contract issuing agency) 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. The fee and expenses shall be borne by the parties as per the Arbitral Institutional rules. The Arbitration proceedings shall be in English language and the seat and venue of Arbitration shall be at the court(s) of Haridwar. 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, shall have exclusive jurisdiction. 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. 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. 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. 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 clause mentioned above. Disputes having cumulative value of less than 10 crores shall be resolved through arbitration and any additional dispute shall be adjudicated by the court of competent jurisdiction.	
21.	BREACH OF CONTRACT, REMEDIES AND TERMINATION:	The following shall amount to breach of contract: 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. 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. VII. Non-compliance to any contractual condition or any other default attributable to Supplier/Vendor. 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. 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. 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. 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. 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. Remedies in case of Breach of Contract. 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. 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. 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% 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: 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. 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: a) from dues available in the form of Bills payable to defaulted Supplier/Vendor against the same contract. 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. 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. 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. 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. Note: 1) 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: (a) In case defaulted Supplier/Vendor is the Sole Proprietorship Firm, any Sole Proprietorship Firm owned by same Sole Proprietor. (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.	
22.	Suspension of Business Dealings with Suppliers / Contractors:	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. 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/vender_registration/vender.php.	
23.	CONFLICT OF INTEREST AMONG BIDDERS/ AGENTS	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: 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: 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 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. "													
24.	MICRO AND SMALL ENTERPRISES (MSE):	Any Bidder falling under MSE category shall furnish the following details & submit documentary evidence/ Govt. Certificate etc. in support of the same along with their techno-commercial offer. <table border="1"> <tr> <td>Type under MSE</td><td>SC/ST owned</td><td>Women owned</td><td>Others (excluding SC/ ST & Women Owned)</td></tr> <tr> <td>Micro</td><td></td><td></td><td></td></tr> <tr> <td>Small</td><td></td><td></td><td></td></tr> </table> Note: If the bidder does not furnish the above, offer shall be processed construing that the bidder is not falling under MSE category. a) MSE suppliers can avail the intended benefits in respect of the procurements related to the Goods and Services only (Definition of Goods and Services as enumerated by Govt. of India vide Office Memorandum F. No. 21(8)/2011-MA dtd. 09/11/2016 office of AS & DC, MSME) only if they submit along with the offer, attested copies of either Udyam Registration. Date to be reckoned for determining the deemed validity will be the last date of Technical Bid submission. Non-submission of supporting document in GeM portal will lead to consideration of their bids at par with other bidders. No benefits shall be applicable for this enquiry if the above required documents are not uploaded at the time of bid submission. Documents submitted by the bidder shall be verified by BHEL for rendering the applicable benefits.	Type under MSE	SC/ST owned	Women owned	Others (excluding SC/ ST & Women Owned)	Micro				Small				
Type under MSE	SC/ST owned	Women owned	Others (excluding SC/ ST & Women Owned)												
Micro															
Small															
25.	JURISDICTION:	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.													
26.	Force Majeure	"Force Majeure" shall mean circumstance which is: a) beyond control of either of the parties to contract, b) either of the parties could not reasonably have provided against the event before entering into the contract, c) having arisen, either of the parties could not reasonably have avoided or overcome, and d) is not substantially attributable to either of the parties And Prevents the performance of the contract, Such circumstances include but shall not be limited to: i) War, hostilities , invasion, act of foreign enemies. ii) Rebellion, terrorism, revolution, insurrection, military or usurped power, or civil war. iii) Riot, commotion or disorder by persons other than the contractor's personnel and other employees of the contractor and sub-contractors. iv) Strike or lockout not solely involving the contractor's personnel and other employees of the contractor and sub-contractors. v) 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. vi) Natural catastrophes such as earthquake, tsunami, volcanic activity, hurricane or typhoon, flood, fire, cyclones etc. vii) Epidemic, pandemic etc. 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, go slow or similar labour difficulty (b) late delivery of equipment or material (unless caused by Force Majeure event) and (c) economic hardship. 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. 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. Delay or non-performance by either party hereto caused by the occurrence of any event of Force Majeure shall not i) Constitute a default or breach of the Contract. ii) 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. 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													
27.	Cartel Formation	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.													
28.	Fraud Prevention Policy:	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.													
29.	Order of	In the event of any ambiguity or conflict between the Tender Documents, the order of													

	Precedence:	precedence shall be in the order below: a. Amendments/Clarifications/Corrigenda/Errata etc. issued in respect of the tender documents by BHEL. b. Buyer Added Bid Specific ATC c. GeM Bid Technical Conditions of Contract (TCC) d. GeM GTC	
30.	Contact details	Please provide 2 Nos of contact details (email id and contact no.) for clarifications. 1..... 2.....	
31.		Bid should be free from correction, overwriting, using corrective fluid, etc. Any interlineation, cutting, erasure or overwriting shall be valid only if they are attested under full signature(s) of person(s) signing the bid else bid shall be liable for rejection. In the event of any Technical or Commercial queries, the same may please be addressed to the following BHEL concerned before Part I opening-	
		Mr. Adesh Garg Designation: Sr. Engineer (PPX-BOI) 4 th Floor, Main Administrative Building, HEEP, BHEL, Hardwar- 249403, Uttarakhand, India Email ID: adesh@bhel.in Tel: +91 1334 28 1707	Mr. Sagar Gupta Designation: Manager (PPX-BOI) 4 th Floor, Main Administrative Building, HEEP, BHEL, Hardwar- 249403, Uttarakhand, India Email ID: sagargupta@bhel.in Tel: +91 1334 28 1045

Note: Please fill your acceptance/ comments in confirmation column. Blank column will be understood as accepted by bidder.

OFFER FORWARDING LETTER / TENDER SUBMISSION LETTER

(To be typed and submitted in the Letter Head of the Company/Firm of Bidder)

Offer Reference No:

Date:

To,

Manager (PPX-BOI)
BHEL, HEEL Ranipur Haridwar

Dear Sir,

Sub: Submission of Offer against GeM Bid No:.....

Having examined the tender documents against your GeM Bid No. GEM/2025/B/6367287 dated _____ and having understood the provisions of the said tender documents and having thoroughly studied the requirements of BHEL related to the work tendered for, in connection with _____ (name of work & project site), we hereby submit our offer for the proposed work in accordance with terms and conditions mentioned in the tender documents, at the prices quoted by us and as per the indicated delivery schedule.

Should our Offer be accepted by BHEL for Award, I/we further agree to furnish 'Performance Security' for the work as provided for in the Tender Conditions within the stipulated time as may be indicated by BHEL.

I/We further agree to execute all the works referred to in the said Tender documents upon the terms and conditions contained or referred to therein and as detailed in the appendices annexed thereto.

I/We have deposited herewith the requisite Earnest Money Deposit (EMD) as per details furnished in the Check List.

Authorized Representative of Bidder
Signature:

Name:
Address:

Place:
Date:

CERTIFICATE OF NO DEVIATION

(To be Typed & submitted in the Letter Head of the Company/Firm of Bidder)

To,

Manager (PPX-BOI)
BHEL, HEEP Ranipur Haridwar

Dear Sir,

Subject: No Deviation Certificate

Ref: 1) GeM Bid No: GeM Bid No:.....
2) All other pertinent issues till date

We hereby confirm that we have not changed/ modified/materially altered any of the tender documents as downloaded from the website/ issued by BHEL and in case of such observance at any stage, it shall be treated as null and void.

We also hereby confirm that we have neither set any Terms and Conditions and nor have we taken any deviation from the Tender conditions together with other references applicable for the above referred GeM Bid.

We further confirm our unqualified acceptance to all Terms and Conditions, unqualified compliance to Tender Conditions.

We confirm to have submitted offer in accordance with tender instructions and as per aforesaid references.

Thanking you,

Yours faithfully,

(Signature, date & seal of authorized
representative of the bidder)

Date:

Place:

UNDERTAKING

(To be typed and submitted in the Letter Head of the Company/Firm of Bidder)

To,

Manager (PPX-BOI)
BHEL, HEEP Ranipur Haridwar

Dear Sir/Madam,

Sub: DECLARATION REGARDING INSOLVENCY/ LIQUIDATION/ BANKRUPTCY PROCEEDINGS

Ref: GeM Bid Specification No:

I/We,

declare that, I/We am/are not admitted under insolvency resolution process or liquidation under Insolvency and Bankruptcy Code, 2016, as amended from time to time or under any other law as on date, by NCLT or any adjudicating authority/authorities.

Sign. of the AUTHORISED SIGNATORY
(With Name, Designation and Company seal)

Place:

Date:

DECLARATION BY AUTHORISED SIGNATORY OF BIDDER

(To be typed and submitted in the Letter Head of the Company/Firm of Bidder)

To,

Manager (PPX-BOI)

BHEL, HEEP Ranipur Haridwar

Dear Sir,

Sub : **Declaration by Authorised Signatory regarding Authenticity of submitted documents.**

Ref : 1) GeM Bid No. & Date:

2) All other pertinent issues till date

I/We, hereby certify that all the documents submitted by us in support of possession of “Qualifying Requirements” are true copies of the original and are fully compliant required for qualifying / applying in the bid and shall produce the original of same as and when required by Bharat Heavy Electricals Limited.

I / We hereby further confirm that no tampering is done with documents submitted in support of our qualification as bidder. I / We understand that at any stage (during bidding process or while executing the awarded contract) if it is found that fake / false / forged bid qualifying / supporting documents / certificates were submitted, it would lead to summarily rejection of our bid / termination of contract. BHEL shall be at liberty to initiate other appropriate actions as per the terms of the Bid / Contract and other extant policies of Bharat Heavy Electricals Limited.

Yours faithfully,

(Signature, Date & Seal of Authorized

Signatory of the Bidder)

Date:

DECLARATION

Date: _____

To,

Manager (PPX-BOI)
BHEL, HEEP Ranipur Haridwar

Dear Sir/ Madam,

Sub: Details of related firms and their area of activities

Please find below details of firms owned by our family members that are doing business/ registered for same item with BHEL, (NA, if not applicable)

1	Material Category/ Work Description	
	Name of Firm	
	Address of Firm	
	Nature of Business	
	Name of Family Member	
	Relationship	
2	Material Category/ Work Description	
	Name of Firm	
	Address of Firm	
	Nature of Business	
	Name of Family Member	
	Relationship	
...		

Note: I certify that the above information is true and I agree for penal action from BHEL in case any of the above information furnished is found to be false.

Regards,

(_____)

From: M/s _____

Supplier

Code: _____

DECLARATION FOR RELATION IN BHEL

(To be typed and submitted in the Letter Head of the Company/Firm of Bidder failing which the offer of Bidder is liable to be summarily rejected)

To,

Manager (PPX-BOI)
BHEL, HEEP Ranipur Haridwar

Dear Sir,

Sub: Declaration for relation in BHEL

Ref: 1) GeM Bid Specification No:

I/We hereby submit the following information pertaining to relation/relatives of Proprieter/Partner(s)/ Director(s) employed in BHEL

Tick (✓) any one as applicable:

1. The Proprietor, Partner(s), Director(s) of our Company/Firm DO NOT have any relation or relatives employed in BHEL

OR

2. The Proprietor, Partner(s), or Director(s) of our Company/Firm HAVE relation/relatives employed in BHEL and their particulars are as below:

- i.
- ii.

**(Signature, Date & Seal of Authorized
Signatory of the Bidder)**

Note:

1. Attach separate sheet, if necessary.
2. If BHEL Management comes to know at a later date that the information furnished by the Bidder is false, BHEL reserves the right to take suitable against the Bidder/Contractor.

DECLARATION REGARDING MINIMUM LOCAL CONTENT IN LINE WITH REVISED PUBLIC PROCUREMENT (PREFERENCE TO MAKE IN INDIA), ORDER 2017-Revision DATED 19TH July, 2024 AND SUBSEQUENT ORDER(S)

(To be typed and submitted in the Letter Head of the Entity/Firm providing certificate as applicable)

To,

(Write Name & Address of Officer of BHEL inviting the Tender)

Dear Sir,

Sub: Declaration reg. minimum local content in line with Public Procurement (Preference to Make in India), Order 2017-Revision, dated 19th July, 2024 and subsequent order(s).

Ref: 1) GeM Bid Specification No:
2) All other pertinent issues till date

We hereby certify that the items/works/services offered by..... (*specify the name of the organization here*) has a local content of _____ % and this meets the local content requirement for ‘**Class-I local supplier**’ / ‘**Class II local supplier**’ ** as defined in Public Procurement (Preference to Make in India), Order 2017-Revision dated 19.07.2024 issued by DPIIT and subsequent order(s).

The details of the location(s) at which the local value addition is made are as follows:

- | | |
|----------|----------|
| 1. _____ | 2. _____ |
| 3. _____ | 4. _____ |

Thanking you,
Yours faithfully,

(Signature, Date & Seal of
Authorized Signatory of the
Bidder)

**** - Strike out whichever is not applicable.**

Note:

1. Bidders to note that above format, duly filled & signed by authorized signatory, shall be submitted along with the techno-commercial offer.
2. In case the bidder's quoted value is in excess of Rs. 10 crores, the authorized signatory for this declaration shall necessarily be the statutory auditor or cost auditor of the company (in the case of companies) or a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies).
3. In the event of false declaration, actions as per the above order and as per BHEL Guidelines shall be initiated against the bidder.

Declaration for treatment of cases regarding conflict of interest

(To be typed and submitted in the Letter Head of the Company/Firm of Bidder)

To,

(Write Name & Address of Officer of BHEL inviting the Tender)

Dear Sir,

Sub: Declaration for treatment of cases regarding conflict of interest

Ref: Tender Reference No:

The bidder notes that a conflict of interest would said to have occurred in the tender process and execution of the resultant contract, in case of any of the following situations:

- i. If its personnel have a close personal, financial, or business relationship with any personnel of BHEL who are directly or indirectly related to the procurement or execution process of the contract, which can affect the decision of BHEL directly or indirectly;
- ii. The bidder (or his allied firm) provided services for the need assessment/ procurement planning of the Tender process in which it is participating;
- iii. Procurement of goods directly from the manufacturers/suppliers shall be preferred. However, if the OEM/Principal insists on engaging the services of an agent, such agent shall not be allowed to represent more than one manufacturer/ supplier in the same tender. Moreover, either the agent could bid on behalf of the manufacturer/ supplier or the manufacturer/ supplier could bid directly but not both. In case bids are received from both the manufacturer/ supplier and the agent, bid received from the agent shall be ignored. However, this shall not debar more than one Authorized distributor (with/ or without the OEM) from quoting equipment manufactured by an Original Equipment Manufacturer (OEM) in procurements under a Proprietary Article Certificate.
- iv. A bidder participates in more than one bid in this tender process. Participation in any capacity by a Bidder (including the participation of a Bidder as a partner/ JV member or sub-contractor in another bid or vice-versa) in more than one bid shall result in the disqualification of all bids in which he is a party. However, this does not limit the participation of an entity as a sub-contractor in more than one bid if he is not bidding independently in his own name or as a member of a JV.

The Bidder declares that they have read and understood the above aspects, and the bidder confirms that such conflict of interest does not exist and undertakes that they will not enter into any illegal or undisclosed agreement or understanding, whether formal or informal with other Bidder(s), in this regard. 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, the same will be considered as a violation of the tender conditions, and suitable action shall be taken by BHEL as per extant policies/ guidelines.

(Signature of the authorized signatory of the bidder)

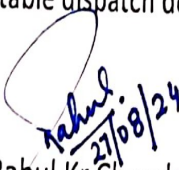
PRE QUALIFICATION REQUIREMENTS (PQR) for Air Exhauster with Motor (Type-E)
(Mat Code: W90716121050)

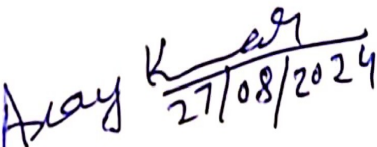
Pre-Qualification Requirements for the procurement of Air Exhauster with Motor (Type-E) are as below:

1. Bidder/ Vendor should have designed, manufactured and supplied equipment of the type and minimum equipment rating as stipulated below:

Type of equipment	Equipment Rating
Centrifugal Exhauster/ Blower directly coupled with motor	Flow 0.4 m ³ /sec (minimum) with head 250 mmWC (minimum) for dry air and motor rating 3 HP (minimum)

2. In support of the above Clause 1, bidder/vendor to submit following documents:
 - i. Un-priced copy of Purchase Order for exhauster coupled with motor stipulated in the Table of clause 1.
 - ii. Duly filled "DETAILS OF EQUIPMENT" for which purchase order copy as per clause 2.i is furnished (Format as per Annexure-1).
 - iii. Any suitable dispatch document.


 (Rahul Kr Chandra)
 Dy. Mgr/HXE


 (Axay Kumar)
 Sr. Manager/ HXE

दिनांक एवं हस्ताक्षर SIGN & DATE		उत्पाद मानक (हीप - हरिद्वार) PRODUCT STANDARD (HEEP HARIDWAR)		HE 57008																			
				पृष्ठ Page	का of																		
समूची सूची संख्या को अधिकृत	SUPERSEDES INVENTORY NO.	AIR EXHAUSTER WITH MOTOR (RADIAL VENTILATOR) BASED ON BHEL'S OWN EXPERIENCE																					
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.		1.0 SCOPE : This specification covers the design, manufacture, performance requirements, testing and supply conditions of Air Exhauster with motor for sucking air steam mixture from gland steam condenser in a thermal power station.																					
		1.1 DESIGNATION : While raising purchase indent, mention the type (see Table-1, Page-6) e.g. Air Exhauster with Motor - Type A to HE 57008.																					
		2.0 TECHNICAL DATA : 2.1 EXHAUSTER DATA : 2.1.1 Medium to be handled : Air steam mixture 2.1.2 Suction temperature : See Table - 1. 2.1.3 Maximum Temperature : 100 °C 2.1.4 Total pressure : See Table - 1 2.1.5 Flow volume : See Table - 1 2.1.6 Density of air steam mixture : See Table - 1 2.1.7 Housing position : See Figure - 1																					
		2.2 MOTOR DATA: 2.2.1 Rated output : To be indicated by the supplier. 2.2.2 Ambient Temperature : 50 °C 2.2.3 Supply : 415 Volts, 3Phase, 50C /s. 2.2.4 Type of enclosure : Totally enclosed fan cooled 2.2.5 Type of protection : IP 54 (IS:4691) 2.2.6 Mounting : As per figure 1 2.2.7 Starting : Direct on line 2.2.8 Voltage Variation : +/- 10% Frequency Variation : +/- 5% Combined voltage & frequency variation : +/- 10% 2.2.9 Insulation Class : B 2.2.10 Efficiency Class of motor : Premium Efficiency Class IE3 conforming to IS 12615 or IEC:60034-30																					
स्वाधिकार एवं गोपनीय इस प्रलेख में दी गई सूचना भारत हेवी इलेक्ट्रिकल्स की सम्पत्ति है इसका प्रयोग एवं अप्रत्यक्ष रूप से किसी भी तरह प्रयोग जो कि कंपनी के हित में हानिकारक हो न किया जाए	हस्ताक्षर एवं दिनांक SIGN & DATE	<table border="1" style="width: 100%;"> <tr> <td>नाम NAME</td> <td>दिनांक एवं हस्ताक्षर SIGNATURE & DATE</td> </tr> <tr> <td>TSX</td> <td>D.K. Mandal</td> </tr> <tr> <td>QAX</td> <td>VIBHUTI SHAH</td> </tr> <tr> <td>AGREED DEPTT.</td> <td>NAME</td> </tr> <tr> <td>DATE & SIGNATURE</td> <td>DATE & SIGNATURE</td> </tr> <tr> <td>APPROVED</td> <td>S.K. BAVEJA, AGM (HXE & PED)</td> </tr> <tr> <td>REV. NO. 11</td> <td>SUPERCEDES</td> </tr> <tr> <td>Dt. 14/10/16</td> <td></td> </tr> <tr> <td>CA:HXE-1603</td> <td>12/10/16</td> </tr> </table>				नाम NAME	दिनांक एवं हस्ताक्षर SIGNATURE & DATE	TSX	D.K. Mandal	QAX	VIBHUTI SHAH	AGREED DEPTT.	NAME	DATE & SIGNATURE	DATE & SIGNATURE	APPROVED	S.K. BAVEJA, AGM (HXE & PED)	REV. NO. 11	SUPERCEDES	Dt. 14/10/16		CA:HXE-1603	12/10/16
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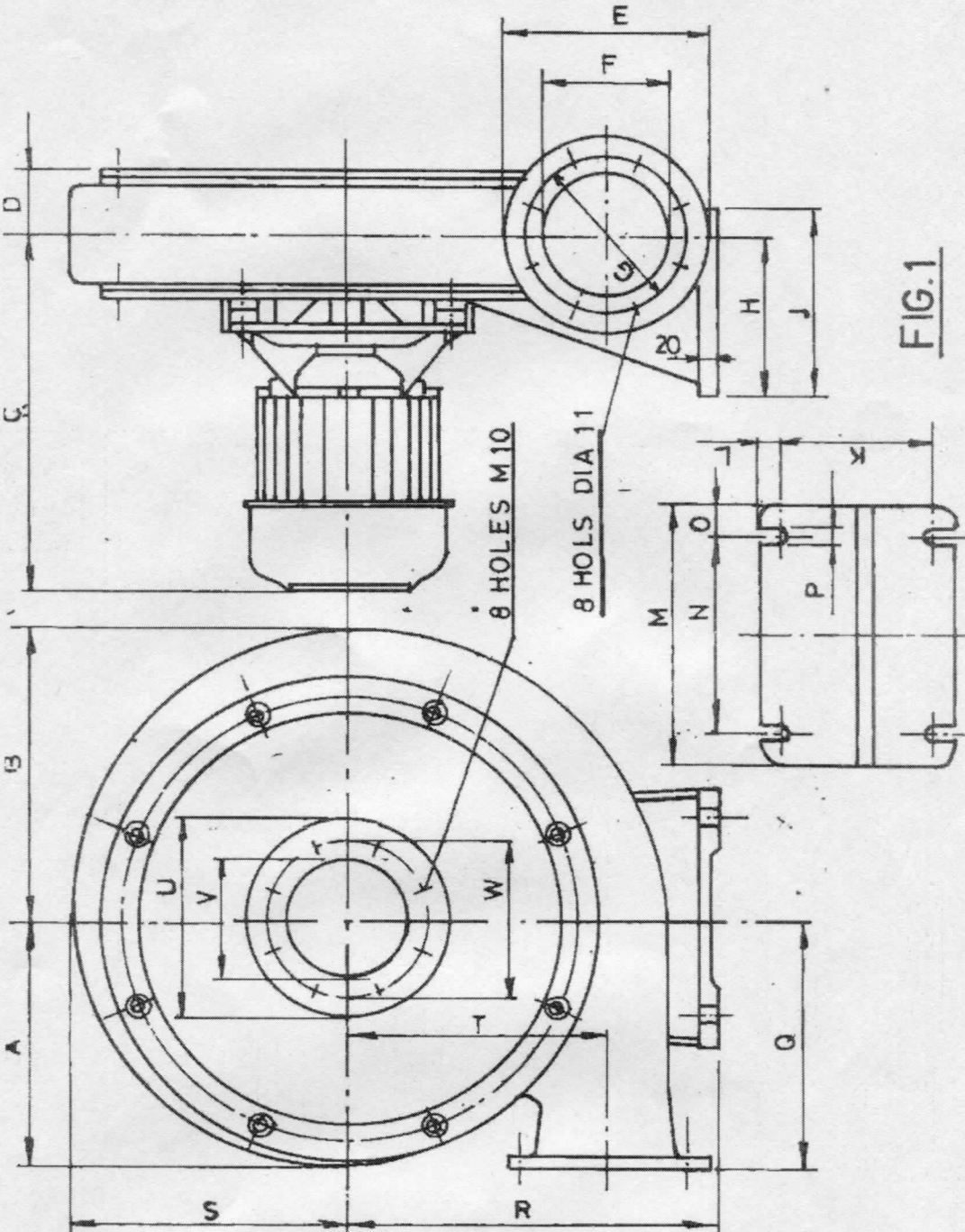
दिनांक एवं हस्ताक्षर SIGN & DATE				उत्पाद मानक (हीप - हरिद्वार) PRODUCT STANDARD (HEEP - HARIDWAR)		HE 57008													
सामग्री सूची संख्या को अधिकृतित करता		SUPERSEDES INVENTORY NO		पृष्ठ का Page 2 of 11															
COPYRIGHT AND CONFIDENTIAL The information on this documents is the property of Bharat Heavy Electrical Limited. It must not be used directly or indirectly in any way detrimental to the interest of the company		2.3 GENERAL REQUIREMENT : 2.3.1 The exhausters shall be supplied in pairs for each set , such that when two units (per set) are installed with motor fan axis coinciding in one line (horizontal), one unit shall be a mirror image of the other. (Refer Figure - 2). 2.3.2 Vibration of the equipment shall be limited to the maximum displacement of 50 microns. The measurement procedure shall be broadly as per IS: 12075. 2.3.3 Noise level shall not be more than 85 dB at a distance of 1 meter. Noise level test shall carried out generally as per IS: 12065. 2.3.4 Dynamic balancing of the impeller shall be done generally as per ISO: 1940 of the balance quality grade G6.3. 2.3.5 The impeller shall be zinc sprayed. (Minimum thickness 60 micron). 2.3.6 All the parts of the exhauster and motor shall be of corrosion resisting material or shall suitably and durably protected against corrosion. 2.3.7 Suitable foundation on bolts (M16 x110) along with nut (M16), lock nut (M16) Spring washer 4 nos. (each) shall be supplied by the vendor for mounting of the equipment on foundation. 2.3.8 Dimensional details shall be as per Figure -1 2.3.9 Each fan exhauster shall be performance test at supplier's works as per IS: 4894. 2.3.10 In the event of placement of order, General Arrangement drawing of the exhauster unit shall be got approved before starting manufacturing of Air Exhauster. 3.0 DESIGN, MANUFACTURE & WORKMANSHIP : 3.1 The protective measure of exhauster shall be as per of IS 4894. In assembled condition, live parts shall not be accessible with the standard test finger (see IS: 1401). 3.2 The welding of the equipment shall be carried out by a qualified welder as per ASME Sec-IX. 3.3 The motor shall have delta type stator winding connection. 3.4 Minimum voltage required under starting up conditions to bring exhauster up to rated speed shall be 85% of rated voltage. 3.5 Before starting manufacturing of Air Exhauster , the vendor shall get its detailed drawing approved by BHEL, which shall include detailed dimensions and bill of material. 3.6 Permissible variation in dimensions mentioned in Table-II shall be as follows: <table border="0"> <tr> <td>i)</td> <td>Nominal dimension</td> <td>: From 30 mm – 120 mm</td> <td>: +/- 2 mm</td> </tr> <tr> <td>ii)</td> <td>- do -</td> <td>: From 121 mm – 315 mm</td> <td>: +/- 2 mm</td> </tr> <tr> <td>iii)</td> <td>- do -</td> <td>: From 316 mm - 1000 mm</td> <td>: +/- 3 mm</td> </tr> </table> 3.7 To cater for continuous operational requirement at the power station, the air exhauster and motor shall be of proven design. 3.8 All flanged connections (inlet and outlet) shall be supplied with matching counter flanges in bolted condition along with fasteners to permit trouble free assembly of inter connecting pipelines. 4.0 MATERIAL : The material of construction used should satisfy the operational stresses, i.e. mechanical, thermal and chemical. It should be certified by the supplier that the material quoted by them in the part list has been used and is suitable for intended service requirements.						i)	Nominal dimension	: From 30 mm – 120 mm	: +/- 2 mm	ii)	- do -	: From 121 mm – 315 mm	: +/- 2 mm	iii)	- do -	: From 316 mm - 1000 mm	: +/- 3 mm
i)	Nominal dimension	: From 30 mm – 120 mm	: +/- 2 mm																
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सामग्री सूची संख्या INVENTORY NO. P-5718		REV.NO. 11 SUPERSEDES		निर्माणकर्ता WORKED BY TARUN BANSAL		SD/- 14/10/16													
				जांचकर्ता CHECKED BY ROHIT BANSAL		SD/- 14/10/16													

दिनांक एवं हस्ताक्षर SIGN & DATE		उत्पाद मानक (हीप - हरिद्वार) PRODUCT STANDARD (HEEP - HARIDWAR)		HE 57008	
				पृष्ठ का Page 3 of 11	
SUPERSEDES INVENTORY NO. समूची सूची संख्या को अधिकारिता करता	5.0 DATA REQUIRED WITH THE BID / OFFER: Supplier to furnish the following data / documents in duplicate along with the offer : 5.1 The general arrangement drawing & catalogue / literature relevant to the product. 5.2 Part lists 5.3 Data sheets duly filled in formats attached with this specification. Foundation drawing along with embossment details of the foundation bolts etc. 5.4 The list of recommended spares required for a period of 5 years.				
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	6.0 IDENTIFICATION : 6.1 The fan exhaustor with motor assembly should have name plate of corrosion resistant material and must include the following information : 6.1.1 Name of equipment. 6.1.2 Model No. 6.1.3 Motor rating. 6.1.4 Name of supplier 6.1.5 BHEL specification No He 57008. 6.1.6 Identification SI No. 1 or 2, as shown in Figure-2 6.1.7 Power factor. 6.1.8 Weight of the equipment. 6.2 The direction of rotation should be embossed on the equipment at an easily locating position.				
स्वत्वधिकार एवं गोपनीय इस प्रलेख में दी गई सूचना भारत हेवी इलेक्ट्रिकल्स की सम्पत्ति है इसका प्रयोग एवं प्रसारण केवल उसी की लिखित अनुमति के बिना ही नहीं किया जायेगा	7.0 INSPECTION AND TESTING: 7.1 The final inspection shall be carried out by BHEL'S representative. A notice of minimum 4 weeks shall be given by supplier for witnessing tests / checks for each lot of air-exhauster with motor. Representative shall have free access to the supplier's works for the purpose of inspection and testing of the air exhauster with motor, and vendor shall provide him all necessary help in carrying out the inspection. Approval of tests / inspection and there by issue of test certificates, or waiver of inspection by the purchaser shall not relieve the vendor of his responsibilities and obligations under contract for safe and satisfactory performance of the fans. 7.2 Tests listed under clause 7.3 shall be carried out as per procedures laid down in IS : 4894. If facilities for any of the tests mentioned below does not exist with the supplier, then relevant test certificates issued by approved test laboratories / institutes shall be supplied in original. Supplier shall supply all test certificates as listed in clause no 7.3. 7.3 Minimum tests / checks to be carried out on air exhauster, are given below.				
हस्ताक्षर एवं दिनांक SIGN & DATE 					
समूची सूची संख्या INVENTORY NO. P-5718	REV.NO. 11		निर्माणकर्ता WORKED BY TARUN BANSAL	SD/- 	
			जांचकर्ता CHECKED BY ROHIT BANSAL	SD/- 	

दिनांक एवं हस्ताक्षर SIGN & DATE 	उत्पाद मानक (हीप - हरिद्वार) PRODUCT STANDARD (HEEP - HARIDWAR)		HE 57008	
			पृष्ठ का Page 4 of 11	
SUPERSEDES INVENTORY NO.	7.3.1 AIR EXHAUSTER: i. Air delivery test to meet the requirement of clause 2.3.9. ii. Vibration test, to meet the requirement of clause 2.3.2. iii. Noise level test, to meet the requirement of clause 2.3.3. iv. Dimensional Check v. Material check: Material certificate shall be as per approved drg. / material list by BHEL. vi. Fan speed (Acceptance test). vii. Balancing of rotating parts to meet the requirements of clause 2.3.4 viii. 100% soap bubble test shall be carried out for no leakage of Casing & Gasket joints at design pressure. 7.3.2 : MOTOR: (a) TYPE TESTS: i. Temp. rise test. ii. Full load test. (b) ROUTINE TESTS i. High voltage test. ii. Insulation resistance test. iii. Earthing continuity test iv. Electrical input test.			
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	7.4 TOLERANCE ON RATINGS : The difference between the observed test results and the ratings assigned by the manufacturer shall not exceed the tolerances given below : a) Air delivery (-) 10 % b) Electrical input (+) 10% c) Speed (+/-) 10 % d) Deficiency (-) 15%.			
स्वत्वाधिकार एवं गोपनीय इस प्रलेख में दी गई सूचना भारत भारती इलेक्ट्रिकल्स की सम्पत्ति है इसका प्रत्यक्ष एवं अप्रत्यक्ष रूप से किसी भी तरह प्रयोग, जो कि कंपनी के हित में हानिकारक हो न किया जाए।	8.0 DOCUMENTS REQUIRED ALONG WITH SUPPLY OF EXHAUSTER UNIT SET : 8.1 Certified copies of test results of tests listed under paragraph 7.2 & 7.3 in 5 copies. 8.2 Dimensional drawings showing erection details in 5 nos. 8.3 Operating and maintenance manual in 5 nos. 8.4 Packing lists. 8.5 Final data sheets on the format enclosed with this specification in 5 nos.. 8.6 Guarantee certificate: The supplier shall guarantee trouble free operation of the equipment for a minimum period of one year after installation and undertake to replace / repair the damaged components free of cost with in the guarantee period. 8.7 A copy each of the above-referred documents, along with one reproducible of item at clause 8.2 shall be dispatched separately to BHEL, Hardwar before dispatch of consignment.			
क्रमांक 1-5718	REV.NO. 11	निर्माणकर्ता WORKED BY TARUN BANSAL	SD/- 	
सामग्री सूची संख्या INVENTORY NO.		जांचकर्ता CHECKED BY ROHIT BANSAL	SD/- 	

दिनांक एवं हस्ताक्षर SIGN & DATE 	उत्पाद मानक (हीप - हरिद्वार) PRODUCT STANDARD (HEEP - HARIDWAR)		HE 57008	
			पृष्ठ	का
सामग्री सूची संख्या को अंकित किया गया INVENTORY NO.	Page 5 of 11			
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	9.0 INTER CHANGEABILITY : The motor of the exhauster of a particular size and model and set of blades shall be Changeable such that the performance of the equipment remains within specified limits.			
	10.0 QUALITY PLAN : Quality Plan shall be submitted along with the offer for approval. Prior approval of Quality Plan is necessary before manufacturing.			
स्वत्वाधिकार एवं गोपनीय इस परलेख में दी गई सूचना भारत हेवी इलेक्ट्रिकल्स की सम्पत्ति है इसका प्रयुक्त एवं अप्रयुक्त रूप से किसी भी तरह प्रयोग, जो कि कंपनी के हित में हानिकारक हो न किया जाए।	11.0 PAINTING : The equipment is to be painted with the paints given below after cleaning the surfaces by shot blasting etc., giving a clean dry and metallic finish.			
	11.1 INTERNAL SURFACES : Inner chamber of the exhauster are to be preserved with steam Washable preservation oil/ paint having viscosity of 38 centistokes at 40° c. 11.2 OUTER SURFACES : Outer surfaces of exhauster shall be painted as per following details : I. Inland conditions: Process a) and c) as per details below to be used for inland application with final DFT as 100 microns. II. Sea Condition : Process a),b) and c) as per details below to be used with final DFT as 100 microns. a) Priming : Epoxy resin based 2 pack Zinc Phosphate with DFT 50 microns. b) Intermediate : TiO ₂ pigmented epoxy resin intermediate paint. c) Finish : Epoxy resin based finish paint.			
दिनांक एवं हस्ताक्षर SIGN & DATE 	12.0 DESPATCH : 12.1 The exhauster units shall be directly dispatched to the site as described in the Purchase Order. 12.2 All openings to be suitably blanked with blanking plates/counter flanges as specified in Cl. 3.8. 12.3 All loose items to be packed separately in a small box and kept inside the main packing box for the exhauster units. 12.4 Packing should be sea worthy and must be able to protect the equipment in tropical climate. 12.5 Following information should be painted on the packing box : a) Name of the equipment. b) BHEL Purchase Order No. c) BHEL Specification No. HE-57008.			
	13.0 LIST OF CROSS REFERRED STANDARDS AND SPECIFICATIONS : a) ASME - IX b) ISO - 1940 c) IS - 1401 d) IS - 4691 e) IS - 4894 f) IS - 12065 g) IS - 12075 h) IS- 12615 i) IEC:60034-30			
सामग्री सूची संख्या INVENTORY NO. P-52218	REV.NO. 11	निर्माणकर्ता WORKED BY TARUN BANSAL		SD/- 
		जांचकर्ता CHECKED BY ROHIT BANSAL		SD/- 

सामग्री सूची संख्या INVENTORY NO. R-5918	उत्पाद मानक (हीप - हरिद्वार) 	HE 57008	
		पृष्ठ का Page 6 of 11	दिनांक एवं हस्ताक्षर SIGN & DATE 
सामग्री सूची संख्या को प्रत्यक्ष एवं अप्रत्यक्ष रूप से किसी भी तरह प्रयोग, जो कि कंपनी के हित में हानिकारक हो न किया जाए। स्वत्वधिकार एवं गोपनीय	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.	सामग्री सूची संख्या को प्रत्यक्ष एवं अप्रत्यक्ष रूप से किसी भी तरह प्रयोग, जो कि कंपनी के हित में हानिकारक हो न किया जाए। SUPERSEDES INVENTORY NO.	दिनांक एवं हस्ताक्षर SIGN & DATE 
TABLE-1			
PARAMETERS	UNIT S	TYPE	A B C A1 B1 C1 D E
SUCTION TEMPERATURE	$^{\circ}\text{C}$	70 80 84 310 306 410 70 80 84 306 410 310 306 410 306 80 80	0.3 0.4 0.3 0.3 0.4 0.3 0.3 0.4 0.3 0.4 0.3 0.3 0.4 0.3 0.4 0.3
HEAD DEVELOPED	mmW C	310 306 410 310 306 410 310 306 410 310 306 410 310 306 410 310 306	0.3 0.4 0.3 0.3 0.4 0.3 0.3 0.4 0.3 0.3 0.4 0.3 0.3 0.4 0.3 0.3
FLOW VOLUME	$\text{M}^3/\text{se C.}$	0.3 0.4 0.3 0.3 0.4 0.3 0.3 0.4 0.3 0.3 0.4 0.3 0.3 0.4 0.3 0.3	0.3 0.4 0.3 0.3 0.4 0.3 0.3 0.4 0.3 0.3 0.4 0.3 0.3 0.4 0.3 0.3
DENSITY OF AIR STEAM MIXTURE AT SUCTION TEMPERATURE AND 85% RH	Kg/M^3	0.923 0.846 0.780 0.923 0.846 0.780 0.923 0.846 0.780 0.923 0.846 0.780 0.923 0.846 0.780 0.923	0.923 0.846 0.780 0.923 0.846 0.780 0.923 0.846 0.780 0.923 0.846 0.780 0.923 0.846 0.780 0.923
REV.NO.	11	निर्माणकर्ता WORKED BY TARUN BANSAL	जांचकर्ता CHECKED BY ROHIT BANSAL

दिनांक एवं हस्ताक्षर SIGN & DATE		उत्पाद मानक (हीप - हरिद्वार)		HE 57008	
SUPERSEDES INVENTORY NO. सामग्री सूची संख्या को अतिरिक्तित्व करण		PRODUCT STANDARD (HEEP - HARIDWAR)		पृष्ठ का Page 7 of 11	
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हस्ताक्षर एवं दिनांक SIGN & DATE 					
सामग्री सूची संख्या INVENTORY NO. P-57-18	REV.NO. 11		निर्माणकर्ता WORKED BY TARUN BANSAL	SD/- 	
			जांचकर्ता CHECKED BY ROHIT BANSAL	SD/- 	

दिनांक एवं हस्ताक्षर SIGN & DATE 		उत्पाद मानक (हीप - हरिद्वार) PRODUCT STANDARD (HEEP - HARIDWAR)		HE 57008	
				पृष्ठ का Page 8 of 11	
SUPERSEDES INVENTORY NO. सामग्री सूची संख्या को अधिकृत किया	DIMENSIONAL DETAIL OF FIGURE-1 DIMENSIONAL DETAIL OF FIGURE-1				
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दिनांक SIGN & DATE 	REV.NO. 11				
सामग्री सूची संख्या INVENTORY NO. P-5718	निर्माणकर्ता WORKED BY TARUN BANSAL		जांचकर्ता CHECKED BY ROHIT BANSAL		 

SL NO	TYPE DIMENSION	A	B	C	A1	B1	C1	D	E
01	A	≈212	≈263	≈263	≈300	≈300	≈360	≈360	≈360
02	B	≈268	≈318	≈318	≈350	≈350	≈425	≈425	≈425
03	C	≈445	≈450	≈425	≈540	≈540	≈560	≈540	≈540
04	D	72	80	80	115	115	135	135	135
05	E	φ 216	φ234	φ234	φ234	φ234	φ274	φ280	φ280
06	F	φ140	φ160	φ160	φ160	φ160	φ200	φ200	φ200
07	G (PCD)	φ182	φ200	φ200	φ200	φ200	φ240	φ240	φ240
08	H	172	180	180	180	180	210	243	243
09	J	200	200	200	243	243	243	343	343
10	K	164	164	164	207	207	207	307	307
11	L	18	18	18	18	18	18	18	18
12	M	250	280	280	364	364	364	464	464
13	N	190	220	220	304	304	304	404	404
14	O	30	30	30	30	30	30	30	30
15	P	18	18	18	18	18	18	18	18
16	Q	215	270	270	320	320	380	400	400
17	R	330	390	390	440	440	530	530	530
18	S	≈240	≈284	≈284	≈325	≈325	≈390	≈390	≈390
19	T	220	267	267	310	310	370	370	370
20	U	φ216	φ234	φ234	φ234	φ234	φ274	φ280	φ280
21	V	φ140	φ160	φ160	φ160	φ160	φ200	φ200	φ200
22	W (PCD)	φ182	φ200	φ200	φ200	φ200	φ240	φ240	φ240

सामग्री सूची संख्या INVENTORY NO. P-5718	REV.NO. 11		निर्माणकर्ता WORKED BY TARUN BANSAL	जांचकर्ता CHECKED BY ROHIT BANSAL	SD/- TS	SD/- KS L	
हस्ताक्षर एवं दिनांक SIGN & DATE 11/2/16	स्वत्वाधिकार एवं गोपनीय इस प्रलेख में दी गई सूचना भारत हेवी इलेक्ट्रिकल्स की सम्पत्ति है इसका प्रत्यक्ष एवं अप्रत्यक्ष रूप से किसी भी तरह प्रयोग जो कि कम्पनी के हित में हानिकारक हो न किया जाए।	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.	सामग्री सूची संख्या को अधिकृतित करना SUPERSEDES INVENTORY NO.	दिनांक एवं हस्ताक्षर SIGN & DATE		उत्पाद मानक (हीप - हरिद्वार) PRODUCT STANDARD (HEEP - HARIDWAR)	HE 57008 पृष्ठ का Page 9 of 11

AIR EXHAUSTERS TO BE SUPPLIED IN PAIRS
AS PER ORIENTATION* BELOW

* Air Exhausters suitable for flexible orientation (in addition to mirror-image orientation) shall be preferred. This can be achieved if the design permits rotation of air outlet connection together with casing by 180°, keeping the bed plate position unchanged.

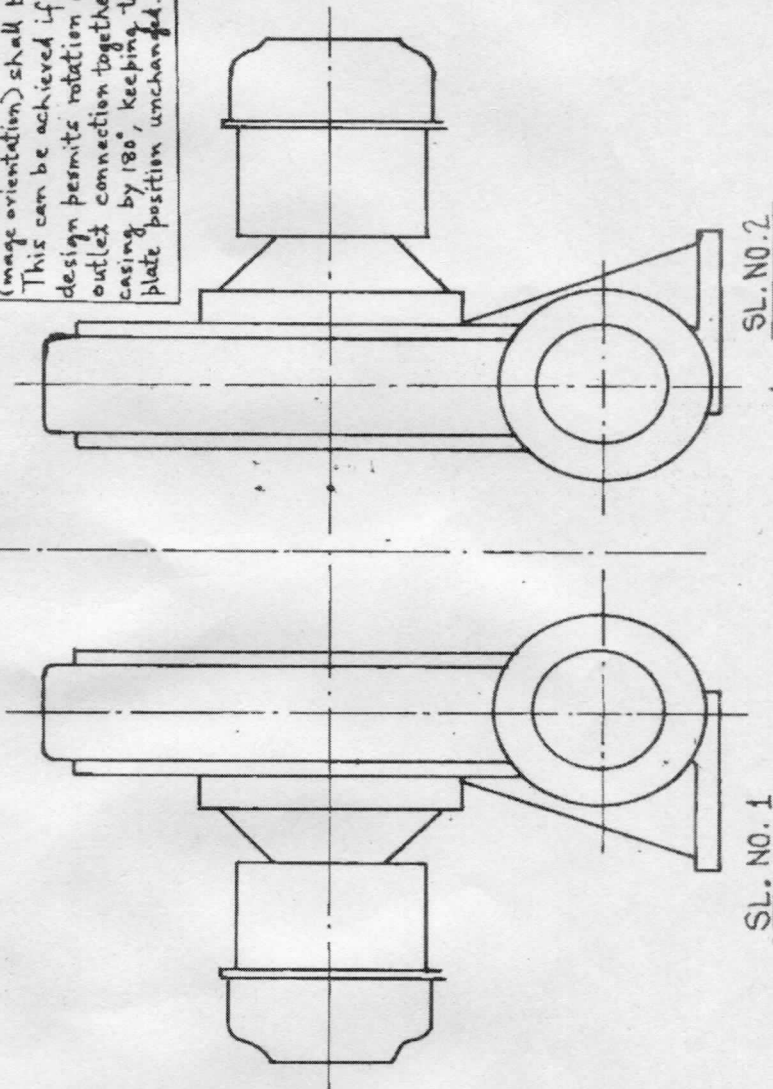


FIG-2

दिनांक एवं हस्ताक्षर SIGN & DATE		उत्पाद मानक (हीप - हरिद्वार) PRODUCT STANDARD (HEEP - HARIDWAR)		HE 57008		
				पृष्ठ Page	का of	11
सुपरीसेड INVENTORY NO.	सामग्री सूची संख्या की अधिकतम करता	DATA SHEET A. FAN - Name of manufacturer - Model No. - Position - Flow dry air M^3 / sec - Pressure difference k p a - Flow steam mixture m^3 / sec - Mixture temp - Pressure difference k p a (with air steam mixture) - Density of mixture kg / m^3 - Density of medium during test kg / m^3 - Power absorbed K W - Speed RIM - Weight of rotating part kg - Weight of fan exhaustor kg - Moment of inertia $kg m^2$ - Standard and degree of rotor balancing - Static or Total Efficiency B. MOTOR: - Model No. - Rating K W - Rated voltage - Frequency 50 Hz - Speed R P M - Degree of protection - Rated current amp				
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सामग्री सूची संख्या INVENTORY NO.	REV.NO.	निर्माणकर्ता WORKED BY		TARUN BANSAL	SD/-	
P-527/18	11	जांचकर्ता CHECKED BY		ROHIT BANSAL	SD/-	

दिनांक एवं हस्ताक्षर SIGN & DATE		उत्पाद मानक (हीप - हरिद्वार)		HE 57008	
		PRODUCT STANDARD (HEEP - HARIDWAR)		पृष्ठ Page 11	का of 11
SUPERSEDES INVENTORY NO. समीची सूची संख्या को अधिकारित करता	8. Power factor 9. Starting current Amp 10. Temp. Rise over 50 °C ambient, °C 11. Class of insulation 12. Rated torque - NM 13. Starting torque -NM 14. Weight of rotating part, Kg 15. Weight of motor - Kg 16. Moment of inertia K g-m ² . 17. Efficiency Class of motor C. ASSEMBLY: 1. Weight, Kg 2. Foundation bolts & nut – Yes 3. Drawing No.				
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स्वत्वाधिकार एवं गोपनीय इस प्रलेख में दी गई सूचना भारत हेवी इलेक्ट्रिकल्स की सम्पत्ति है इसका प्रत्यक्ष एवं अप्रत्यक्ष रूप से किसी भी तरह प्रयोग, जो कि कंपनी के हित में हानिकारक हो न किया जाए।					
कर्ताक्षर एवं दिनांक SIGN & DATE 	1/2/16				
समीची सूची संख्या INVENTORY NO. R5318	REV.NO. 11			निर्माणकर्ता WORKED BY TARUN BANSAL	SD/-
				जांचकर्ता CHECKED BY ROHIT BANSAL	SD/-



ANNEXURE-1: DETAILS OF EQUIPMENT

Bidder's Name and Address :
XXXXXXX

To
BHEL, HEEL, RANIPUR,
Haridwar-249403

Details of manufacture of proven equipments.

S. No.	Item Description
A.	CENTRIFUGAL EXHAUSTER/BLOWER DIRECTLY COUPLED WITH MOTOR
1.00.00	Name, Address & Telephone No. of the manufacturer
1.01.00	Name and location of the Plant where the exhauster is installed
1.02.00	Client Name and its Address, Fax No. & Tel.Nos.
1.03.00	Name and Designation of the responsible person in Client's Organisation
1.03.00	PO No. and Date
1.04.00	Date of Commissioning of System/Package

Signature of authorized signatory...

1.05.00	(a)	Whether the System/Equipments are in Successful Operation for a minimum period of two (2) years prior to the date of enquiry	Yes/No
	(b)	Whether the system/equipments are in successful operation as prior to date of enquiry	Yes/No
1.06.00	Brief Technical Particulars of the System/Package/Equipments :		
	(i)	Designed by	
	(ii)	Manufactured by	
	(iii)	Fan Type	
	(iv)	Design Standard	
	(v)	Whether Directly coupled with motor	Yes/No
	(vi)	Working medium being handled by Exhauster	
	(vii)	Operating Temperature of working medium	
	(viii)	Density of working medium (kg/m ³)	
	(ix)	Head developed by exhauster at above density(mmWC)	
	(x)	Flow rate of working medium (m ³ /sec)	
	(xi)	Diameter of impeller after machining (mm)	
	(xii)	HP rating of Exhauster motor	
	xiii)	Make of Motor	
	xiv)	Power absorbed by motor	
	(xv)	Profile of blades of impeller (Straight/ Backward curved/ Forward curved)	
	(xvi)	Whether Counter Flanges supplied with Exhauster	Yes/No

QUALITY PLAN								Page 1 of 3					
BHEL	BHEL APPROVED SUB VENDOR NAME & ADDRESS:		DESCRIPTION OF ITEM			DRG. NO REV: SPEC: REV:		PROJECT:					
			AIR EXHAUSTER WITH MOTOR (GSC AIR EXHAUSTER)										
			QP NO.: QP No: QA/BE/QP/307 Dated: 27.02.2025										
SL. NO.		CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORDS		AGENCY			REMARKS
									D	M	B	N	
1	2	3	4	5	6	7	8	9	D	10			11

1. RAW MATERIAL													
1.1	CASING, IMPELLER, BLADES & BASE FRAME/ PLATE	CHEMICAL COMPOSITION MECHANICAL PROPERTIES SIZE	MAJOR	CHEMICAL MECHANICAL MEASUREMENT	1 / HEAT 100%	BHEL APPD. DRG. / SPEC. / DATA SHEET	BHEL APPD. DRG. / SPEC. / DATA SHEET	MTC	✓ ✓ ✓	P P P	V V V	V V V	NABL TC shall be submitted
1.2	NUTS & BOLTS	TRADE MARK & PROPERTY CLASS	MAJOR	VISUAL	100%	As per vendor's Procedure	As per vendor's Procedure	IR	✓	P	V	-	
1.3	AC INDUCTION MOTOR (Please mention Make, degree of Protection and Rating).	ROUTINE & TYPE TESTS CERTIFICATE INCLUDING DEGREE OF PROTECTION	MAJOR	REVIEW	100%	BHEL APPD. DRG. / SPEC. / DATA SHEET	BHEL APPD. DRG. / SPEC. / DATA SHEET	coc	✓	P	V	V	Customer Approved sources
2. INPROCESS INSPECTION													
2.1	CASING, MOTOR BRACKET, BASE FRAME & INLET CASING	QUALITY OF WELD	MAJOR	DPT	100%	BHEL APPD. DRG. / SPEC. / DATA SHEET	BHEL APPD. DRG. / SPEC. / DATA SHEET	IR	✓	P	V	-	NOTE:1
2.2	IMPELLER	DIMENSIONS DIMENSIONS AFTER MACHINING DYNAMIC BALANCING	MAJOR	MEASUREMENT	100%	BHEL APPD. DRG. / SPEC. / DATA SHEET	BHEL APPD. DRG. / SPEC. / DATA SHEET	IR IR TC	- - ✓	P P P	- - V	- - V	
2.3	ASSEMBLY OF FAN	INTERNAL CLEARANCES BETWEEN IMPELLER & CASING	MAJOR	MEASUREMENT	100%	BHEL APPD. DRG. / SPEC. / DATA SHEET	BHEL APPD. DRG. / SPEC. / DATA SHEET	IR	✓	P	V	V	
3.0 FINAL INSPECTION													
3.1	COUNTER FLANGE	PHYSICAL VERIFICATION	MAJOR	VISUAL	100%	BHEL APPD. DRG. / SPEC. / DATA SHEET	BHEL APPD. DRG. / SPEC. / DATA SHEET	COC	✓	P	w	V	

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		

QUALITY PLAN								Page 2 of 3				
BHEL	BHEL APPROVED SUB VENDOR NAME & ADDRESS:		DESCRIPTION OF ITEM			DRG. NO REV: SPEC: REV:		PROJECT:				
			AIR EXHAUSTER WITH MOTOR (GSC AIR EXHAUSTER)									
			QP NO.: QP No: QA/BE/QP/307 Dated: 27.02.2025									
SL. NO.		CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORDS		AGENCY		REMARKS
									D	M	B	
1	2	3	4	5	6	7	8	9	D	10		11

3.2	COMPLETE ASSEMBLY	OVERALL DIMENSIONS	MAJOR	MEASUREMENT	100%	BHEL APPD. DRG. / SPEC. / DATA SHEET	BHEL APPD. DRG. / SPEC. / DATA SHEET	TC	✓	P	W	V	
3.3		THICKNESS OF ZINC COATING OF IMPELLER	MAJOR	MEASUREMENT	100%	BHEL APPD. DRG. / SPEC. / DATA SHEET	BHEL APPD. DRG. / SPEC. / DATA SHEET	IR	✓	P	V	-	Thickness=
3.4		LEAKAGE TEST OF CASING & GASKET JOINTS AT DESIGN PRESURRE	MAJOR	LEAK TEST	100%	BHEL APPD. DRG. / SPEC. / DATA SHEET	BHEL APPD. DRG. / SPEC. / DATA SHEET	TC	✓	P	W	V	Design Pressure=
3.5		PERFORMACE TEST (INCLUDING AIR DELIVERY, PRESSURE & POWER CONSUMPTION)	MAJOR	PERFORMANCE	100%	BHEL APPD. DRG. / SPEC. / DATA SHEET	BHEL APPD. DRG. / SPEC. / DATA SHEET	TC	✓	P	W	V	
3.6		FAN SPEED	MAJOR	ELECTRIC AL	100%	BHEL APPD. DRG. / SPEC. / DATA SHEET	BHEL APPD. DRG. / SPEC. / DATA SHEET	TC	✓	P	W	V	
3.7		FAN SPEED, SMOOTH RUNNING & DIRECTION OF ROTATION	MAJOR	VISUAL	100%	BHEL APPD. DRG. / SPEC. / DATA SHEET	BHEL APPD. DRG. / SPEC. / DATA SHEET	IR	✓	P	W	-	
3.8		NOISE LEVEL	MAJOR	MEASUREMENT	100%	BHEL APPD. DRG. / SPEC. / DATA SHEET	BHEL APPD. DRG. / SPEC. / DATA SHEET	TC	✓	P	W	V	Max=
3.9		VIBRATION	MAJOR	MEASUREMENT	100%	BHEL APPD. DRG. / SPEC. / DATA SHEET	BHEL APPD. DRG. / SPEC. / DATA SHEET	TC	✓	P	W	V	Max=
3.10		APPEARANCE INCLUDING PAINT THICKNESS (DFT)	MAJOR	VISUAL & MEASUREMENT	100%	BHEL APPD. DRG. / SPEC. / DATA SHEET	BHEL APPD. DRG. / SPEC. / DATA SHEET	TC	✓	P	W	V	Total DFT=
3.11		COMPLIANCE OF TECHNICAL REQUIREMENT	MAJOR	--	100%	BHEL APPD. DRG. / SPEC. / DATA SHEET	BHEL APPD. DRG. / SPEC. / DATA SHEET	COC	✓	P	V	-	

MANUFACTURER/ SUBCONTRACTOR		LEGEND:	FOR CUSTOMER USE	APPROVED BY
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QUALITY PLAN								Page 3 of 3					
BHEL	BHEL APPROVED SUB VENDOR NAME & ADDRESS:		DESCRIPTION OF ITEM			DRG. NO REV: SPEC: REV:		PROJECT:					
			AIR EXHAUSTER WITH MOTOR (GSC AIR EXHAUSTER)										
			QP NO.: QP No: QA/BE/QP/307 Dated: 27.02.2025										
SL. NO.		CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORDS		AGENCY			REMARKS
									D	M	B	N	
1	2	3	4	5	6	7	8	9	D	10			11
3.12		COMPLETION OF DOCUMENTS	MAJOR	PHYSICAL	100%	BHEL APPD. DRG. / SPEC. / DATA SHEET	BHEL APPD. DRG. / SPEC. / DATA SHEET	DOCUMENTS		P	V	-	
4.0 PACKING													
4.1		SOUNDNESS OF PACKING AGAINST TRANSIT DAMAGE	MAJOR	PHYSICAL	100%	BHEL APPD. DRG. / SPEC. / DATA SHEET	BHEL APPD. DRG. / SPEC. / DATA SHEET	IR		P	-		

NOTE:1 - Welding to be done by qualified welder as per ASME IX WPS and PQR to be checked by inspecting agency.

Note 2: All instruments to be used for testing/ inspection shall have valid 'calibration certificates' to be verified by agencies/ manufacturer/contractor/TPIA.

Note 3: All pages of the inspection documents shall be numbered in chronology with the QAP clauses, duly mentioning the corresponding QAP clause no. at the top of each page.

Note 4: One 'index' page containing the document descriptions, their page no's & QAP cl no. shall be attached upfront the inspection documents.

Note 5: Painting can be done only after inspection clearance, as per customer's /BHEL approved paint specification / schedule (if required). otherwise manufacturer's standard shall be followed.

Note 6: For any spares item, apart from 'visual inspection' the 'interchangeability fitment certificate' or 'material TC' are to be submitted, with specific mentioning of the ' part no/ item no of the approved GA/ x-sec Drg.'".

MANUFACTURER/ SUBCONTRACTOR		LEGEND:	FOR CUSTOMER USE	APPROVED BY
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