



Bid Number/बोली क्रमांक (बिड संख्या)[:] GEM/2025/B/6077376 Dated/दिनांक : 21-03-2025

Bid Document/ बिड दस्तावेज़

Bid Details/बिंड विवरण			
Bid End Date/Time/बिड बंद होने की तारीख/समय	11-04-2025 16:00:00		
Bid Opening Date/Time/बिंड खुलने की तारीख/समय	11-04-2025 16:30:00		
Bid Offer Validity (From End Date)/बिड पेशकश वैधता (बंद होने की तारीख से)	120 (Days)		
Ministry/State Name/मंत्रालय/राज्य का नाम	Ministry Of Heavy Industries And Public Enterprises		
Department Name/विभाग का नाम	Department Of Heavy Industry		
Organisation Name/संगठन का नाम	Bharat Heavy Electricals Limited (bhel)		
Office Name/कार्यालय का नाम	10110009-heep, Haridwar		
क्रेता ईमेल/Buyer Email	buyer1259.bhelb.ua@gembuyer.in		
Total Quantity/कुल मात्रा	20		
ltem Category/मद केटेगरी	VAPOUR EXHAUSTER WITH IE MOTOR		
GeMARPTS में खोजी गई स्ट्रिंग / Searched Strings used in GeMARPTS	VAPOUR EXHAUSTER		
GeMARPTS में खोजा गया परिणाम / Searched Result generated in GeMARPTS	Chemical Vapour Deposition System, Propeller Type AC Ventilating Fans - Exhaust Fans (V2) as per IS 2312, Smoke Exhauster cum Blower OR Air Exhausters, High Pressure Mercury Vapour Lamps - IS 9900, Fume Exhaust System with Scrubber or Fume Hood with Scrubber, High Pressure Sodium Vapour Lamps (HPSV Lamps) as per IS 9974 (Part 1 and 2), Vapour Pressure Dial Type Thermometer -as per EN 13190, Plastics Bib Taps Pillar Taps Angle Valves and Stop Valves as per IS 9763:2000 (Latest), Lamp Ballast for HPSV Lamps as per IS 15882:2009, IS 15885, PULLEY FOR EXHAUST FAN		
अधिसूचना के लिए चयनित प्रासंगिक श्रेणियाँ / Relevant Categories selected for notification	Smoke Exhauster cum Blower OR Air Exhausters		
MSE Exemption for Years of Experience and Turnover/ अनुभव के वर्षों से एमएसई छ्रट	No		
Startup Exemption for Years of Experience and Turnover/ अनुभव के वर्षों से स्टार्टअप छूट	No		
Bid to RA enabled/बिंड से रिवर्स नीलामी सक्रिय किया	Yes		
RA Qualification Rule	H1-Highest Priced Bid Elimination		

Bid C	Details/बिड विवरण			
ITC available to buyer/क्रेता के लिए उपलब्ध आईटीसी	Yes			
Type of Bid/बिंड का प्रकार	Two Packet Bid			
Time allowed for Technical Clarifications during technical evaluation/तकनीकी मूल्यांकन के दौरान तकनीकी स्पष्टीकरण हेतु अनुमत समय	3 Days			
Inspection Required (By Empanelled Inspection Authority / Agencies pre- registered with GeM) No				
Payment Timelines	Payments shall be made to the Seller within 90 days of issue of consignee receipt-cum-acceptance certificate (CRAC) and on-line submission of bills (This is in supersession of 10 days time as provided in clause 12 of GeM GTC)			
Evaluation Method/मूल्यांकन पद्धति	Total value wise evaluation			
Arbitration Clause	No			
Mediation Clause	No			
EMD Detail/ईएमडी विवरण				
Required/आवश्यकता	No			
ePBG Detail/ईपीबीजी विवरण Required/आवश्यकता	No			
MII Purchase Preference/एमआईआई खरीद वरीयता				
MII Purchase Preference/एमआईआई खरीद वरीयता Yes				
MSE Purchase Preference/एमएसई खरीद वरीयता				
MSE Purchase Preference/एमएसई खरीद वरीयता	Yes			

1. Preference to Make In India products (For bids < 200 Crore):Preference shall be given to Class 1 local supplier as defined in public procurement (Preference to Make in India), Order 2017 as amended from time to time and its subsequent Orders/Notifications issued by concerned Nodal Ministry for specific Goods/Products. The minimum local content to qualify as a Class 1 local supplier is denoted in the bid document. If the bidder wants to avail the Purchase preference, the bidder must upload a certificate from the OEM regarding the percentage of the local content and the details of locations at which the local value addition is made along with their bid, failing which

no purchase preference shall be granted. In case the bid value is more than Rs 10 Crore, the declaration relating to percentage of local content shall be certified by the statutory auditor or cost auditor, if the OEM is a company and by a practicing cost accountant or a chartered accountant for OEMs other than companies as per the Public Procurement (preference to Make-in -India) order 2017 dated 04.06.2020. Only Class-I and Class-II Local suppliers as per MII order dated 4.6.2020 will be eligible to bid. Non - Local suppliers as per MII order dated 04.06.2020 are not eligible to participate. However, eligible micro and small enterprises will be allowed to participate .The buyers are advised to refer the OM No.F.1/4/2021-PPD dated 18.05.2023.

OM_No.1_4_2021_PPD_dated_18.05.2023 for compliance of Concurrent application of Public Procurement Policy for Micro and Small Enterprises Order, 2012 and Public Procurement (Preference to Make in India) Order, 2017.

- 2. Purchase preference will be given to MSEs having valid Udyam Registration and whose credentials are validated online through Udyam Registration portal as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bidder wants to avail themselves of the Purchase preference, the bidder must be the manufacturer / OEM of the offered product on GeM. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises and hence resellers offering products manufactured by some other OEM are not eligible for any purchase preference. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product or service and Buyer will decide eligibility for purchase preference based on documentary evidence submitted, while evaluating the bid. If L-1 is not an MSE and MSE Seller (s) has / have quoted price within L-1+ 15% (Selected by Buyer) of margin of purchase preference /price band defined in relevant policy, such MSE Seller shall be given opportunity to match L-1 price and contract will be awarded for 40% (selected by Buyer) percentage of total quantity. The buyers are advised to refer the OM No. F.1/4/2021-PPD dated 18.05.2023 OM No.1 4 2021 PPD dated 18.05.2023 for compliance of Concurrent application of Public Procurement Policy for Micro and Small Enterprises Order, 2012 and Public Procurement (Preference to Make in India) Order, 2017. Benefits of MSE will be allowed only if seller is validated on-line in GeM profile as well as validated and approved by Buyer after evaluation of documents submitted.
- 3. Reverse Auction would be conducted amongst all the technically qualified bidders except the Highest quoting bidder. The technically qualified Highest Quoting bidder will not be allowed to participate in RA. However, H-1 will also be allowed to participate in RA in following cases:
 - i. If number of technically qualified bidders are only 2 or 3.
 - ii. If Buyer has chosen to split the bid amongst N sellers, and H1 bid is coming within N.
 - iii. In case Primary product of only one OEM is left in contention for participation in RA on elimination of H-1.
 - iv. If L-1 is non-MSE and H-1 is eligible MSE and H-1 price is coming within price band of 15% of Non-MSE L-1
 - v. If L-1 is non-MII and H-1 is eligible MII and H-1 price is coming within price band of 20% of Non-MII L-1

If the buyer has mentioned MSE purchase preference in ATC then service provider is required to upload necessary documents for MSE purchase preference for verification by the buyer during evaluation.

VAPOUR EXHAUSTER WITH IE MOTOR (20 pieces)

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively/क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक)

Technical Specifications/तकनीकी विशिष्टियाँ

Buyer Specification Document/क्रेता विशिष्टि दस्तावेज़	<u>Download</u>
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Input Tax Credit(ITC)/इनपुट कर क्रेडिट(आईटीसी) and/ तथा Reverse Charge(RCM)/रिवर्स प्रभार (आरसीएम) Details

ITC on GST/जीएसटी पर इनपुट कर क्रेडिट	ITC on GST Cess/जीएसटी उपकर कर क्रेडिट
100%	NA

Additional Specification Documents/अतिरिक्त विशिष्टि दस्तावेज़

DrawingDocument1	<u>View</u>
DrawingDocument2	<u>View</u>

Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्रा

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती / रिपोर्टिंग अधिकारी	Address/पता	Delivery Schedule/डिलीवरी अनुसूची (In number of days from contract start days/अनुबंध prarambh होने की तारीख से दिनों की संख्या में)			contract start होने की तारीख से
Quai 493225,Adani Power Limited Yillage: Raikheda Block: Tilda, Raipur 493225 Chhattisgarh			Delivery to start after/प्रारंभ होने की तारीख से डिलीवरी	Delivery to be completed by/डिलीवरी तक पूरी कर ली जाए		
			2		100	518
			2		200	699
2	Mata Prasad Pandey	231304,Mirzapur Thermal Energy (UP) Private Limited Village: Dadri Khurd; PO: Darhi Ram Tehsil: Sadar, District: Mirzapur 231 304 Uttar Pradesh	Quar y/मा 2		Delivery to start after/प्रारंभ होने की तारीख से डिलीवरी	Delivery to be completed by/डिलीवरी तक पूरी कर ली जाए
3	Mohit Singh	325219,Adani Power limited, Kawai, 2 x 800 MW(Phase-II) Thermal Power project, Village - Kawai, Tehsil - Atru, Baran - District, Rajasthan	Quar y/मा 2		Delivery to start after/प्रारंभ होने की तारीख से डिलीवरी	Delivery to be completed by/डिलीवरी तक पूरी कर ली जाए
			2		300	1065
			2		301	1156

	S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता		Delivery Schedule/डिलीवरी अनुसूची (Ir number of days from contract star days/अनुबंध prarambh होने की तारीख र दिनों की संख्या में)		contract start होने की तारीख से
	486886,Mahan Energen Limited 2x800 MW (Phase-II) Thermal Power Project Village: Bandhaura, Karsualal Tehsil: Waidhan, District - Singrauli, Pin - 486886, Madhya Pradesh.	Quantit y/मात्रा	Delivery to start after/प्रारंभ होने की तारीख से डिलीवरी	Delivery to be completed by/डिलीवरी तक पूरी कर ली जाए			
			Pin - 486886, Madhya Pradesh.		2	200	913
					2	300	1095

Buyer added Bid Specific Additional Scope of Work

S.No.क्र.सं	Document Title	Description	Applicable/रिवर्स प्रभार के अनुसार जीएसटी i.r.o. Items
	ATC		VAPOUR EXHAUSTER WITH IE
	<u>View</u>	ATC	MOTOR(20)

The uploaded document only contains Buyer specific Additional Scope of Work and / or Drawings for the bid items added with due approval of Buyer's competent authority. Buyer has certified that these additional scope and drawings are generalized and would not lead to any restrictive bidding.

Buyer Added Bid Specific Terms and Conditions/क्रेता द्वारा जोड़ी गई बिड की विशेष शर्तें

1. Generic

OPTION CLAUSE: The Purchaser reserves the right to increase or decrease the quantity to be ordered up to 25 percent of bid quantity at the time of placement of contract. The purchaser also reserves the right to increase the ordered quantity up to 25% of the contracted quantity during the currency of the contract at the contracted rates. The delivery period of quantity shall commence from the last date of original delivery order and in cases where option clause is exercised during the extended delivery period the additional time shall commence from the last date of extended delivery period. The additional delivery time shall be (Increased quantity \div Original quantity) \times Original delivery period (in days), subject to minimum of 30 days. If the original delivery period is less than 30 days, the additional time equals the original delivery period. The Purchaser may extend this calculated delivery duration up to the original delivery period while exercising the option clause. Bidders must comply with these terms.

2. Buyer Added Bid Specific ATC

Buyer Added text based ATC clauses

SI. No.	Material Code & Item Description	Project Name	Qty	Lot No.		Date for Sup ply Completion
			(SET)		(SET)	

1	Material Code W9641500312 7	2 1. ADANI, RAIPUR P H-2 4 Nos	1	2	31-10-2026	
				2	2	30-04-2027
	Vapour Exhauster with IE 3 Motor	2. MIRZAPUR UP PH	4 Nos	1	2	30-04-2027
	SPEC: TG 60432 REV: 04	-1		2	2	30-10-2027
	5. 25. 75 30. 52 1.21. 0	3. KAWAI-PH-2	4 Nos	1	2	30-10-2027
				2	2	30-04-2028
		4. KAWAI, PH-3	4 Nos	1	2	30-01-2028
				2	2	30-07-2028
		5. ADANI, MAHAN F	4 Nos	1	2	30-11-2027
		H-3		2	2	30-05-2028

3. Buyer Added Bid Specific ATC

Buyer uploaded ATC document Click here to view the file.

Disclaimer/अस्वीकरण

The additional terms and conditions have been incorporated by the Buyer after approval of the Competent Authority in Buyer Organization, whereby Buyer organization is solely responsible for the impact of these clauses on the bidding process, its outcome, and consequences thereof including any eccentricity / restriction arising in the bidding process due to these ATCs and due to modification of technical specifications and / or terms and conditions governing the bid. If any clause(s) is / are incorporated by the Buyer regarding following, the bid and resultant contracts shall be treated as null and void and such bids may be cancelled by GeM at any stage of bidding process without any notice:-

- 1. Definition of Class I and Class II suppliers in the bid not in line with the extant Order / Office Memorandum issued by DPIIT in this regard.
- 2. Seeking EMD submission from bidder(s), including via Additional Terms & Conditions, in contravention to exemption provided to such sellers under GeM GTC.
- 3. Publishing Custom / BOQ bids for items for which regular GeM categories are available without any Category item bunched with it.
- 4. Creating BoQ bid for single item.
- 5. Mentioning specific Brand or Make or Model or Manufacturer or Dealer name.
- 6. Mandating submission of documents in physical form as a pre-requisite to qualify bidders.
- 7. Floating / creation of work contracts as Custom Bids in Services.
- 8. Seeking sample with bid or approval of samples during bid evaluation process. (However, in bids for attached categories, trials are allowed as per approved procurement policy of the buyer nodal Ministries)
- 9. Mandating foreign / international certifications even in case of existence of Indian Standards without specifying equivalent Indian Certification / standards.
- 10. Seeking experience from specific organization / department / institute only or from foreign / export experience.
- 11. Creating bid for items from irrelevant categories.
- 12. Incorporating any clause against the MSME policy and Preference to Make in India Policy.
- 13. Reference of conditions published on any external site or reference to external documents/clauses.
- 14. Asking for any Tender fee / Bid Participation fee / Auction fee in case of Bids / Forward Auction, as the case may be.

Further, if any seller has any objection/grievance against these additional clauses or otherwise on any aspect of this bid, they can raise their representation against the same by using the Representation window provided in the bid details field in Seller dashboard after logging in as a seller within 4 days of bid publication on GeM. Buyer is duty bound to reply to all such representations and would not be allowed to open bids if he fails to reply to

such representations.

All GeM Sellers / Service Providers are mandated to ensure compliance with all the applicable laws / acts / rules including but not limited to all Labour Laws such as The Minimum Wages Act, 1948, The Payment of Wages Act, 1936, The Payment of Bonus Act, 1965, The Equal Remuneration Act, 1976, The Payment of Gratuity Act, 1972 etc. Any non-compliance will be treated as breach of contract and Buyer may take suitable actions as per GeM Contract.

This Bid is also governed by the General Terms and Conditions/ यह बिड सामान्य शर्तों के अंतर्गत भी शासित है

In terms of GeM GTC clause 26 regarding Restrictions on procurement from a bidder of a country which shares a land border with India, any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority. While participating in bid, Bidder has to undertake compliance of this and any false declaration and non-compliance of this would be a ground for immediate termination of the contract and further legal action in accordance with the laws./जेम की सामान्य शर्तों के खंड 26 के संदर्भ में भारत के साथ भूमि सीमा साझा करने वाले देश के बिडर से खरीद पर प्रतिबंध के संबंध में भारत के साथ भूमि सीमा साझा करने वाले देश का कोई भी बिडर इस निविदा में बिड देने के लिए तभी पात्र होगा जब वह बिड देने वाला सक्षम प्राधिकारी के पास पंजीकृत हो।बिड में भाग लेते समय बिडर को इसका अनुपालन करना होगा और कोई भी गलत घोषणा किए जाने व इसका अनुपालन करना करने पर अनुबंध को तत्काल समाप्त करने और कानून के अनुसार आगे की कानूनी कार्रवाई का आधार होगा।

---Thank You/धन्यवाद---

Buyer Specific Special Terms and conditions

<u>Item Name: Vapour Exhauster with IE3 Motor (20 Nos)</u> <u>Projects: **2X800 MW ADANI Projects - (05 Nos)**</u>

1. Scope of Enquiry

E-bids on GeM portal are invited from bidders for the supply of <u>Vapour Exhauster with IE3 Motor</u> <u>for 2 x</u> <u>800MW ADANI</u>, <u>Projects</u> (tabulated) as per requirement mentioned below:

SI. No.		Project Name	Qty	Lot No.	Lot Qty	
NO.	item bescription		(SET)		(SET)	Supply Completion
1	Material Code W96415003127	1. ADANI, RAIPUR PH-2	4 Nos	1	2	31-10-2026
	Vapour Exhauster with IE3 Motor SPEC: TG 60432 REV: 04			2	2	30-04-2027
		2. MIRZAPUR UP PH-1	4 Nos	1	2	30-04-2027
				2	2	30-10-2027
		3. KAWAI-PH-2	4 Nos	1	2	30-10-2027
				2	2	30-04-2028
		4. KAWAI, PH-3	4 Nos	1	2	30-01-2028
				2	2	30-07-2028
		5. ADANI, MAHAN PH-3	4 Nos	1	2	30-11-2027
				2	2	30-05-2028

2. Project / Consignee Detail

Sl. No.	Project Name	Site/ Project Address
1.	ADANI, RAIPUR PH-2	Adani Power Limited, Village: Raikheda Block: Tilda, Raipur 493225, Chhattisgarh
2.	MIRZAPUR UP	Mirzapur Thermal Energy (UP) Private Limited Village: Dadri Khurd; PO: Darhi Ram Tehsil: Sadar, District: Mirzapur 231 304, Uttar Pradesh
3.	KAWAI-PH-2	Adani Power limited, Kawai, 2 x 800 MW(Phase-II) Thermal Power project, Village - Kawai, Tehsil - Atru, Baran -District, Rajasthan, Pin-
4.	KAWAI, PH-3	325219
5.	ADANI, MAHAN PH-3	Mahan Energen Limited, 2x800 MW (Phase-III) Mahan Ultra Supercritical Thermal Power Project, Village: Bandhoura, Karsualal Tehsil: Waidhan, District-Singrauli, Pin - 486886, MP

3. **EARNEST MONEY DEPOSIT (EMD):** NIL

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

SI. NO.	Terms	Description	Your
			confirmation
1.	Confirmation to	General terms and conditions on GeM 4.0 (Version 1.23) or subsequent rules/policies	
	compliance of GeM GTC	issued by GeM shall be applicable. Please confirm.	
2.	Public Procurement	For this procurement, the local content to categorize, a supplier as a Class-I local supplier/	
	(Preference to Make	Class-II local Supplier, purchase preference to Class-I local supplier, is as defined in Public	
	in India)	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. Format Attached Annex-B. Please Confirm	
3.	Pre-Qualification Requirements (PQR)	Please note that procurement shall be done only from the vendors who full-fill the PQR requirement and accepted by our engineering. Bidders are required to fill the required data along with supporting document for BHEL review and approval. Offers of only those vendors will be considered who qualify the PQR before opening of price-bids. Filled Annex-C to be submitted with supporting documents.	
4.	Special Instruction of Technical requirement	Please confirm that material specification as per Spec TG60432 rev 04 only is followed for concerned items of the enquiry. PAINTING — PRIMER PAINT: EPOXY BASED ZINC RICH PRIMER PAINT (1 COAT OF 75 MICRONS), INTERMEDIATE PAINT: HIGH BUILD EPOXY MIO COATING CURED WITH POLYAMIDE HARDNER (1 COAT 100 MICRONS), FINISH (FINAL) PAINT: ALIPHATIC ACRYLIC 2 PACK POLYURETHANE FINISH PAINT (1 COAT 50 MICRONS), TOTAL PAINT DFT - 225 MICRONS (MINIMUM), PAINT SHADE IS GREY RAL 9002 AS PER IS-5 OR EQUIVALENT Test and Guarantee certificates are required to be submitted. Operation and maintenance manual copy to be send with each packing box. 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 Requirements	 Bidders to submit endorse copy of BHEL SQP QA/BE/QP/306, Rev-04. Bidders to confirm that inspection shall be by done by BHEL Nominated inspection agency (M/s QUEST) as per finally BHEL 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 IE3 motor shall be used from following manufacturer only: 1. CGL, Ahmednagar 2. ABB, Faridabad 3. BBL, Mumbai 4. KEC, Bangalore 5. BHEL 6. Siemens, Mumbai 7. Jyoti, Baroda 8. MARATHON ELECTRIC, Kolkata 9. NGEF, Hubli	
7.	Evaluation criteria	Evaluation will be done on the basis of total landed cost to BHEL with cost involved for delivery up to all respective project site (considering material cost, taxes & duties, Freight etc.	
8.	Price basis, Evaluation Currency, Firm prices & Transit Insurance	Prices should be quoted on door delivery basis up to respective site basis i.e. including freight, packing & forwarding charges, GST etc. The evaluation currency for this tender shall be INR. 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.	
9.	Consignee Address Declaration	Consignee mentioned in ATC/ GeM enquiry are mentioned as actual and may differ during ordering. However, material to be dispatched by vendor to respective site as actual.	
10	BID to RA	Applicable as per GeM NIT	

11	Payment Terms	The navment term shall be done after	er issue of consignee receipt-cum acceptance	
	•	certificate (CRAC) as per the below de		
		Type of Bidder	Payment Terms (Number of Days) from	
		Type of Bludel	MRC	
		Micro & Small Enterprises (MSEs)	45 days	
			-	
		Medium Enterprises	60 days	
		Non MSME	90 days	
		, ·	ant documents. MSE benefits shall be as per	
		GeM/ GeM NIT.		
12	Document submission for		etc. as called for in the specifications shall be	
	approval from BHEL		HEL approval within 30 days of purchase order.	
			followed by the supplier without any price	
			account of late submission of drawings/data	
			ndors account. BHEL will arrange the approval	
		_	ents within 30 days of their receipt provided	
			ys in approval shall be dealt on merit basis.	
13	Manufacturing	<u> </u>	e manufacturing clearance from BHEL before	
	clearance	starting manufacturing of material.	No manufacturing is to be started without	
		getting clearance from BHEL. Kindly co	onfirm.	
14	Manufacturing cum	Kindly quote your minimum delivery	period in no. of weeks. (time taken including	
	Delivery Period		days for MDCC issuance and up to Dispatch)	
		From the date of manufacturing clears	ance	
		Early delivery will be accepted as per E		
15	MDCC clause		issue of material dispatch clearance certificate	
			certificates and relevant documents are to be	
			ial for issue of MDCC, which will be issued after	
			will be issued within 07 days of receipt of these	
			Il respects. In case of any delay on account of	
		,	be extended by no. of days in excess of 7 days	
		taken by BHEL in issuing MDCC and del	ays shall be dealt on merit basis.	
		In case any material is dispatched	without MDCC and any loss is incurred by	
			tsoever, BHEL shall not be responsible in any	
		manner to compensate the supplier in		
		mariner to compensate the supplier in	tilis regard.	
		Material is to dispatched within 07	days of receipt of MDCC from BHEL without	
		waiting for PO amendment.	days of receipt of Midee from Brill without	
16	Guarantee		be guaranteed for trouble free & satisfactory	
-0	Guarantee		= :	
		i i	nonths from the date of delivery or 12 months	
		from date of commissioning, whicheve		
		_	ntee period lesser than above mentioned	
	Hamildated Domini	guarantee period may result in rejection		
		। It the Seller/Service Provider fails to o	deliver any or all of the Goods/Services within	
17	Liquidated Damages		A specified in the contract the Diver will be	
17	Liquidated Damages	the original/re-fixed delivery period(s		
17	Liquidated Damages	entitled to deduct/recover the Liquid	dated Damages for the delay, unless covered	
17	Liquidated Damages	entitled to deduct/recover the Liquic under Force Majeure conditions afore	dated Damages for the delay, unless covered esaid, @ 0.5% of the contract value of delayed	
17	Liquidated Damages	entitled to deduct/recover the Liquic under Force Majeure conditions afore quantity (lot-wise) per week or part o	dated Damages for the delay, unless covered esaid, @ 0.5% of the contract value of delayed f the week of delayed period as pre-estimated	
17	Liquidated Damages	entitled to deduct/recover the Liquic under Force Majeure conditions afore quantity (lot-wise) per week or part o damages not exceeding 10% of the cor	dated Damages for the delay, unless covered esaid, @ 0.5% of the contract value of delayed f the week of delayed period as pre-estimated intract value of delayed lot quantity without any	
17	Liquidated Damages	entitled to deduct/recover the Liquic under Force Majeure conditions afore quantity (lot-wise) per week or part o damages not exceeding 10% of the cor controversy/dispute of any sort whatso	dated Damages for the delay, unless covered esaid, @ 0.5% of the contract value of delayed f the week of delayed period as pre-estimated ntract value of delayed lot quantity without any pever.	
17	Liquidated Damages	entitled to deduct/recover the Liquic under Force Majeure conditions afore quantity (lot-wise) per week or part o damages not exceeding 10% of the cor controversy/dispute of any sort whatso	dated Damages for the delay, unless covered esaid, @ 0.5% of the contract value of delayed f the week of delayed period as pre-estimated intract value of delayed lot quantity without any	
17	Liquidated Damages	entitled to deduct/recover the Liquic under Force Majeure conditions afore quantity (lot-wise) per week or part o damages not exceeding 10% of the cor controversy/dispute of any sort whatso	dated Damages for the delay, unless covered esaid, @ 0.5% of the contract value of delayed f the week of delayed period as pre-estimated ntract value of delayed lot quantity without any pever.	
	HSN Code &	entitled to deduct/recover the Liquic under Force Majeure conditions afore quantity (lot-wise) per week or part o damages not exceeding 10% of the corcontroversy/dispute of any sort whatsom the date of dispatch mentioned on Lifer penalty purposes.	dated Damages for the delay, unless covered esaid, @ 0.5% of the contract value of delayed f the week of delayed period as pre-estimated ntract value of delayed lot quantity without any pever.	
		entitled to deduct/recover the Liquic under Force Majeure conditions afore quantity (lot-wise) per week or part o damages not exceeding 10% of the corcontroversy/dispute of any sort whatsom the date of dispatch mentioned on Lifer penalty purposes.	dated Damages for the delay, unless covered esaid, @ 0.5% of the contract value of delayed of the week of delayed period as pre-estimated entract value of delayed lot quantity without any poever. R/GR would be treated as the date of delivery	

Instructions 1. INVOICE, GR/LR, MDCC, PKG LIST ALONG WITH E-WAY BILL IS REQUIRED FOR 2. DOCUMENTS (GR/LR, PACKING LIST, TEST CERTIFICATES) ARE REQUIRED IN ORIGINAL. **Packing** Material of unit-1, unit-2 and mandatory spares need to be packed in separate Instructions MSDS (Material Safety Data Sheet) is to be sent along with LR DOCs, If applicable. Vendor to ensure proper and sturdy packing suitable for handling during transportation up to site in healthy condition. Vendor to submit packing list (box-wise) for BHEL review before dispatch. Settlement Settlement of Dispute Dispute, If any dispute or difference of any kind whatsoever shall arise between BHEL and the Supplier/Vendor, **CONCILIATION &** arising out of the contract for the performance of the work whether during the progress of contract ARBITRATION: 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/	
22	Suspension of	some of the same partners; or sole proprietorship firm owned by any partner(s) as a sole proprietor. The offers of the bidders who are under suspension as also the offers of the bidders, who engage the	
	Business Dealings with Suppliers / Contractors:	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.	

		-				
		Type under MSE	SC/ST owned	Women owned	Others (excluding SC/ ST & Women Owned)	
		Micro				
		Small				
		Note: If the bidder does falling under MSE categoral MSE suppl	ory.	offer shall be processed	_	
		Goods and Services onl Memorandum F. No. 21 with the offer, attested deemed validity will b document in GeM ports shall be applicable for ti	(8)/2011-MA dtd. 09/11 copies of either Udyare the last date of Teal will lead to considera	./2016 office of AS & DC m Registration. Date to echnical Bid submission ation of their bids at pa	, MSME) only if they sub be reckoned for detern . Non-submission of s r with other bidders. N	omit along nining the upporting o benefits
		submission. Documents	submitted by the bidd	er shall be verified by E	BHEL for rendering the	applicable
25	II IDICDICTION:	benefits.		ula diasa lasina in faura i	a tha Danishlia af India	Cb.:
25	JURISDICTION:	This contract shall be go clause(s) mentioned ab- shall alone have exclusive	ove of this contract, th	e Civil Court having orig	inal Civil Jurisdiction at	
26	Force Majeure	"Force Majeure" shall mear parties could not reasonable of the parties could not reasonable of the parties And Prevents the phostilities, invasion, act or civil war. iii) Riot, comm the contractor and sub-coemployees of the contract radiation or contamination explosives, radiation or rad or typhoon, flood, fire, cycle The following events are exparty: a) any strike, work-t (unless caused by Force Maleure, the thereof within 15 (fifteen) of The party who has given sunder the Contract for so performance is prevented, period of delay caused due Delay or non-performance I i) Constitute a default or occasioned thereby, if and Force Majeure. BHEL at its discretion may	oricumstance which is: a) y have provided against the sonably have avoided or of erformance of the contract foreign enemies. ii) Rebelli otion or disorder by persontractors. iv) Strike or lot tor and sub-contractors. by radio-activity, except a lot-activity, vi) Natural cata one setc. vii) Epidemic, paniplicitly excluded from Force o-rule action, go slow or sigure event) and (c) econor, hindered or delayed from en it shall notify the other lays after the occurrence of ich notice shall be excused long as the relevant event hindered or delayed. The T to such Force Majeure event oy either party hereto cause breach of the Contract. ii, to the extent that such delaconsider short closure of	beyond control of either of a event before entering introvercome, and d) is not subt, Such circumstances incluion, terrorism, revolution, in so other than the contractor (kout not solely involving the contract of the contr	the parties to contract, b) et of the contract, c) having an istantially attributable to e de but shall not be limited surrection, military or usur it's personnel and other enthe contractor's personnel of war, explosive materiale contractor's use of such e, tsunami, volcanic activity responsibilities of the nonate delivery of equipment is obligations under the Core of such event and the circumctual performance of its extended by a period of time event of Force Majeure shall damages or additional coused by the occurrence of position of Force Majeure	isen, either ither of the to: i) War, ped power, nployees of and other ils, ionizing munitions, r, hurricane performing or material tract by an cumstances obligations uch party's me equal to
27	Cartel Formation	extant guidelines. In any cast Majeure The Bidder declares that whether formal or infocertifications, subsidiary competitiveness or to in indulged in above activitions.	t they will not enter into ormal with other Bidde contracts, submission ntroduce cartelization in	o any illegal or undiscloer(s). This applies in pa or non-submission of bion the bidding process. In	sed agreement or unde rticular to prices, spec ds or any other actions case, the Bidder is fou	rstanding, ifications, to restrict nd having
28	Fraud Prevention Policy:	Bidder along with its a providers shall strictly http://www.bhel.com a suspected fraud as soon	associate /collaborators adhere to BHEL F nd shall immediately bri	s /sub-contractors /sub- raud Prevention Polic ing to the notice of BHEL	-vendors / consultants y displayed on BHEL	/ service . website
29	Order of	In the event of any amb			s, the order of	
	Precedence:	precedence shall be in the a. Amendments by BHEL. b. Buyer Addec	ne order below:	da/Errata etc. issued in		ocuments
30	Contact details	Please provide 2 Nos of 1		and contact no.) for clar	ifications.	,

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

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 GeM procurement portal.

- 1. Please submit signed & Stamped copy (each page) of duly filled of confirmation column of "Buyers Specific Terms & Conditions and its clause wise supporting documents where required.
- 2. Please submit signed & stamped copy (each page) of PQR documents with proper filled information and related supporting documents as mentioned in PQR.
- 3. Please submit endorsed copy of quality plan QA/BE/QP/306 REV-04.
- 4. Please submit MSE certificate (if have) and self-declaration of MII class certificate as per Annex-B.
- 5. Please submit endorsed copy of respective BHEL product specification equipment drawing.

An	n	ex	u	re	B
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Format for Self-Certification under preference to Make in India order

Certificate

line with Government Public Procurement Order No. P-45021/2/2017-PP (BE-II) dated 04.06.2020, we herek	by certify
nat we M/s(supplier name) are local supplier. The percentage of local content in the items	s (Duplex
lter for Jacking Oil) for Suratgarh Project offered by us against Enquiry No is	%
percentage).	
etails of location at which local value addition will be made is as follows:	

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.

PQR/EME/BI025/60432/002

Dt. 31.07.2023

Mandatory Pre-Qualification requirements for Vapour Exhauster

Description

The Vapour Exhauster is required to handle mixture of turbine oil vapours, air & H2 and for creating partial vacuum in generator bearing chamber & oil tanks of Tubogenrators. Vapour exhauster shall comprise of Centrifugal fan, Squirrel cage induction motor, base frame for mounting and motor terminal box.

Mandatory requirement for Pre-Qualification

1.0 Experience Requirement -

The Vendor should be a regular manufacturer of such Vapour exhauster & should source motor set from regular manufacturer. Vendor should have supplied at least Three (3) nos. of vapour exhauster with motor in last Ten (10) years (from the date of issuance of enquiry) with following technical

Si No.	Parameter	Value
(i)	Exhauster & Motor Type	Centrifugal fan with squirrel cage 3 phase induction motor
(ii)	Flow medium	Mixture of Oil, Gases and Air.
(iii)	Material	Carbon Steel or Stainless steel
(iv)	Discharge Pressure	96 mmWC & above
(v)	Discharge Capacity	350 M3/Hr & above
(vi)	Motor Rating	0.75 KW & above
(vii)	Rated Speed	2820 RPM (approx)
(viii)	Rated Voltage	415V AC

In support of above, vendor to furnish information, as per the following format for previous supplied Vapour exhauster meeting the above technical requirement for the past Ten (10) years from the date of issuance of enquiry.

Purchase reference no	Purchase issue date	order	QTY.	Motor KW rating	Discharge Pressure (mmWC)	Discharge Capacity (M3/Hr)

Vendor to submit the following documents as an evidence of acceptance of supplied Vapour exhauster, for the above mentioned successfully executed order -

- a) Vendor to furnish copy of Un-Priced Purchase Orders executed for supply of at least Three (3) nos.
 of vapour exhauster with motor in last Ten (10) years (from the date of issuance of enquiry).
- b) Vendor to furnish the test certificate for Exhauster fan & motor set as per relevant standard for any one of the PO submitted. The submitted test certificates should have co-relation with PO.
- c) Vendor to furnish supporting document for the evidence of final acceptance from End customer/Third Party of supplied vapour exhauster with motor for any one of the submitted PO's. Acceptance certificate should contain information like item details, Quantity accepted and should also have correlation with PO reference no.
- 2.0 Vendor shall submit the proof of manufacturer i.e. Factory license, NSIC certificate

Note - BHEL reserves the right to verify information submitted by vendor. In case the information is found to be false / incorrect, the offer shall be rejected.

Lotto (21-02-2) Kunal Mishra (Manager-EME) K.C. Panda (SDGM-EME)

T		उत्पाद	क्रय विनिर्देश		TG6	0432
SIGN & DATE	बीएम ईएम	PRODUCT PURC		CATION	पृष्ट	8 का 1
. IS					Page	1 of 8
RY				Based o	n BHEL's	own experience
NO.		VAP	OUR EXHAUSTER			
TIAL अधिक्षित करता है अधिक्षाय ectly or te company	This sp	E AND APPLICATION: Decification intended to covour exhauster, complete will pour exhauster is required ating partial vacuum in genators.	th motor, coupling, ba	turbine oil va	pours, a	air & H ₂ and
CONFIDENTIAL ants is the property of Bhara nust not be used directly or to the interest of the comp	2.0 DESIG	SNATION: apour exhauster shall be d	esignated as below: -			
COPYRIGHT AND CONFIDENTIAL The information on this documents is the property of Bharat Heavy Beactrical Limited It must not be used directly or ndirectly in any way detrimental to the interest of the company	(1) (2) (3)	Material specification column Description Column Material Code Column	umn : : :	TG-604 Vapour W 9641	Exhaus	
है इसका प्रत्यक्ष एवं हानिकारकहोंन किया	li e	ON ENQUIRES AND PURCE n addition to incorporating enclosed along with enquire INICAL REQUIREMENTS	the above details, a c y.	opy of the st	andard :	shall be
नीय की सम्						
र एवं एलेक्ट्रिक कि क्षेत्र	3.1	FECHINCAL DATA OF VA			000	3 / 1-
स्वत्वाधिका ग भारत हेवी गरह प्रयोग ओ		(1) Continuous discharge	capacity at operating	point :		m ³ / hr mmWC
मूचना स्ट		(2) Normal discharge pres(3) Operating temp. of the		:	70°	
में दी गई प में किसी		(4) Ambient temp.	mediani		50°	С
इस प्रलेख अप्रत्यक्ष क		(5) Speed			282	20rpm
A DATE	8/18					হিনাক দুৰ্ব हুদ্নাধ্ব
Rank SIGN		Cb n	90	नाम NAME		SIGNATURE & DATE
	TSX	D. CANGWAR TOO TO	अनुवादक TRANSLATED BY	Kunal Mishra		110 1118
	PSC Member QAX	PRITE Patricular	निर्माणकर्ता WORKED BY जांचकर्ता CHECKED BY	Manju Azad		Marganon
	0-	नाम दिनाक एवं हस्तीक्षर	पर्यवेक्षणकर्ता SUPERVISED BY	R. L. VYAS		11.1.18
ति संख्या RY NO	AGREED DEP		स्वीकृति APPROVED : Rakesh Ku	ma (A MY	ME) I-	7018 Gr. NO. 8.10
मामग्री मूची संख्या INVENTORY NO.	REV.NO.	04 11.01.18	ानमाणकता	ज़ारीकर्ता ISSUED : TSX		दिनांक DATE : 09.09.92
	CHANGE ADVICE					

7.	10	बीएच ईएम	`	TG	604	32
SIGN & DATE			उत्पाद क्रय विनिर्देश	पृष्ट	8	का 2
SIGN		//	PRODUCT PURCHASE SPECIFICATION	Page	2	of 8
अधिकप्तित करता है INVENTORY		3.2 <u>DE</u> 3.2	give long trouble free service. The design shall be such as to keep the friction and we caused by end thrust. Wear in mechanical seals bearing minimum. The rotor of the exhauster shall be dynamical ISO 1940, so that vibration of the exhauster is not great	ar minir gs shall lly bala ter than	num be nced 25 r	as per nicron
COLT INCOME. AND COLUMN TRANSPORTED TO THE INFORMATION OF THE INFORMAT	detrimental to the interest of the company		 (a) Easy access for maintenance work. (b) No contamination of the medium from materials abraseals. (c) No seepage of lubricants into the flow medium. (d) No leakage of gases outside in the atmosphere (e) No seepage of oil toward, motor and outside along of the shall be sealed with grease lubricated axial seafigure. Exhauster bearing shall be designed so as to ensure 5 continuous service. 	m the back of the	om the sha	of the ne ft. n in the
ग प्रत्यक्ष एवं कहीन किया		3.2	The exhauster shall be provided with a drain plug.Fan impeller is to be directly mounted onto rotor shaft a figure at page 8.			
ाथ सम्पति है इसका प्रत्यक्ष दित में द्रानिकारक हो न			 The critical speed of the exhauster shall not lie within a operating speed (2820 rpm) of the exhauster. Minimum clearance between impeller & casing shall be 			
स्वत्वाधिकार एवं गापनाथ हमूचना भारत हेवी एतेम्डिफलम की स के से बन्दर प्रमोग जो कि कंप्पती के हि			 Minimum clearance between impeller & casing shall be that there is no rubbing. The construction, mounting and base frame dimension as per figure at page 8. 			
स्वत्वाप्ति इस प्रतेष में दी गई मूचना भारत	3X748 64 4 1551 N 876 X417	3.	Materials of Construction: (1) Casing : Carbon Steel as position : Carbon Steel : C	er IS:20)62 E	250 BF
रिनाक एवं हम्बाधर SIGN & DATE	31418	3. 3. 3. 3.	(5) 'O' ring : Neoprene OTOR SPECIFICATIONS 3.1 TYPE : TEFC squirrel cage induction m 3.2 KW rating : 0.75kW 3.3 Rated voltage : 415 Volts, 3 phase, 50Hz 3.4 Type of duty : S1 (Continuous) as per I 3.5 Efficiency class : Refer Variant Table as b	z EC 600		
सामग्री सूची संख्या INVENTORY NO.	1605	REV. NO. 04	निर्माणकर्ता WORKED BY Kunal Mishra	hung	1	11/01/11

TG60432 मी एम ई एम वं हुम्ताक्षर SIGN & DATE उत्पाद क्रय विनिर्देश पृष्ट 8 का 3 3 of 8 Page PRODUCT PURCHASE SPECIFICATION SUPERSEDES INVENTORY MATERIAL CODE OF **EFFICIENCY CLASS OF STARTING CURRENT (IN % OF** VAPOUR EXHASTER MOTOR AS PER IEC-FULL LOAD CURRENT) + 20% **ASSEMBLY** 60034-30 (Tolerance as per IEC: 60034-1) W96415000578 IE-2 650 सामग्री मूची संख्या को अधिकमित करता है W96415003127 IE-3 700 3.3.6 Permissible voltage variation ± 10% Permissible Frequency variation 3.3.7 ± 5% 3.3.8 Combined voltage & frequency variation + 10% COPYRIGHT AND CONFIDENTIAL The information on this documents is the property of Bharat Heavy Electrical Lumited It must not be used directly or indirectly in any way derimental to the interest of the company 3.3.9 Min. voltage required under starting 85% 3.3.10 Conditions to bring driven equipment to rated speed 3.3.11 Starting Torque : Min. 1.3 times the rated torque. 3.3.12 Breakdown torque : Min. 2 times the rated torque. **3.3.13** Starting : DOL 3.3.14 Acceleration time with full load connected: 3.5 + 0.5 sec. 3.3.15 Starting duty : 3 starts spread over on hour and 2 consecutive starts from hot 3.3.16 Condition without injurious heating to the winding. 3.3.17 Overload capacity : Motor shall be capable of running at full load with 80% of rated 3.3.18 Voltage for 10min. and 70% of rated voltage for 1 min. 3.3.19 Class of insulation : 'F' with temperature limited to Class B (70 °C) 3.3.20 Ventilation : Totally enclosed & fan cooled मिल व प्रतेष में दी गई मूचना भारत हेवी एलेक्ट्रिकन की सम्पत्ति है इसका ग्रन्थश स्थ रूप में किसीक्षीतरह प्रयोग जी कि कम्पनी के हित में हार्तिकारक हो न ि जाय। 3.3.21 Enclosure protection: IP 55 as per IEC 60034-5 3.3.22 Explosion proof : Group II T4 as per IEC 60079 **3.3.23** Bearing : as per suppliers design. Life not less than 50000hrs. 3.3.24 Earthing : Suitable arrangement to be provided at 2 places. स्वत्वाधिकार एवं गोपनीय 3.3.25 Terminal box : Terminal box shall be explosion proof as per Group II T4 IEC 60079. 3.3.26 Cable gland also to be provided in terminal box for 3 core Aluminium cable. 3.3.27 Fault level : 50 KA for 1 sec. 4.0 PUMP DATA SHEET (TO BE FURNISHED ALONGWITH OFFER: 4.1 Capacity M3 / Sec. हम प्रले स्प्रत्यक्ष 4.2 Head MWC 4.3 Efficiency 4.4 Rated speed 4.5 Exhauster B.H.P. / kw at Rated Capacity DATE 4.6 Material: Casing Impeller base Frame 'o' ring 4.7 Type of bearing used 4.8 Type of coupling 4.9 Type of Sealing 4.10 Suction size 4.11 Discharging size निर्माणकर्ता सामग्री सूची संख्या INVENTORY NO. 11/01/18 75 **REV. NO. 04** Kunal Mishra WORKED BY 85 11/01/18 जांचकर्ता CHECKED BY Manju Azad

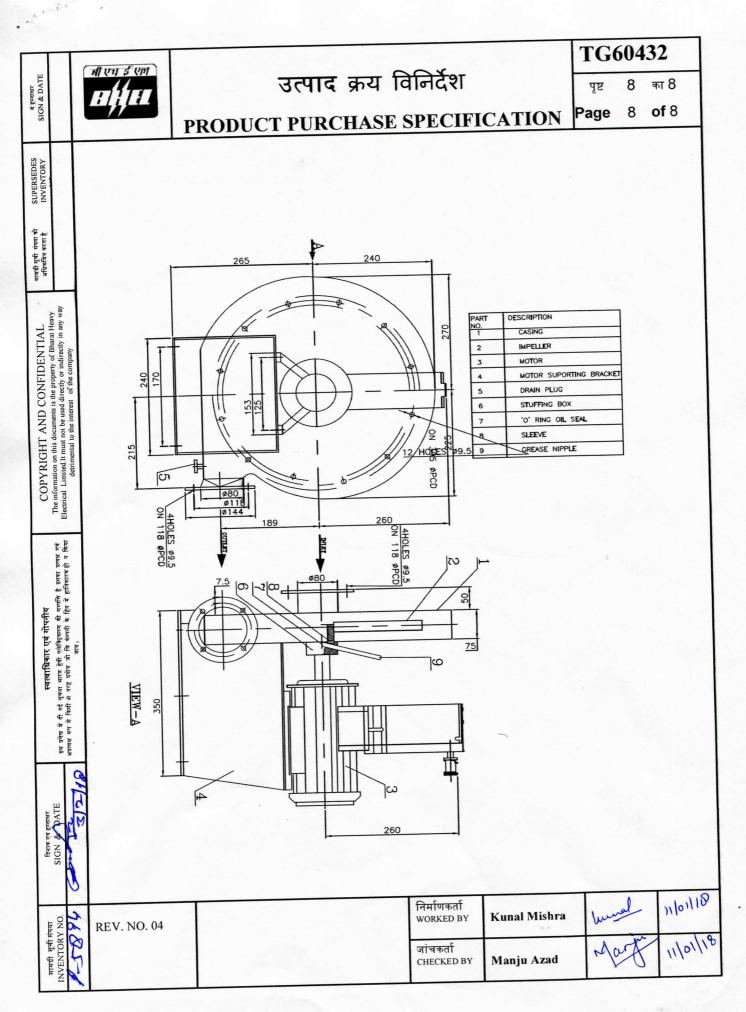
	1	भी एग ई एम				TG	5043	32
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SIGN & DATE		HEIRT	PRODUCT PURCHASE		CATION	Page	4	of 8
+	-							
ORY		4.12 W	t. of exhauster with motors base fra	ime				
INVENTORY		4.13 W	t. of exhauster	wing onclose	d with offer			
ξZ		4.14 G	eneral assy. & cross sectionals dra	a enclosed	d With One			
		4.15 Ca	apacity Vs discharge pressure curvower consumption Vs discharge pre	e enclosed	enclosed			
करता है		4.16 PC	apacity Vs efficiency curve enclose	d				
अधिकमित								
# To	1 5	OTOM 0.5	R DATA SHEET (TO BE FURNISH	IED ALONG	WITH OFFEI	<u>3)</u>		
ay		5.1 M	anufacturer					
L Heavy any w			/pe					
COPYRIGHT AND CONFIDENTIAL The information on this documents is the property of Bharat Heavy learncal Limited It must not be used directly or indirectly in any way		5.3 F	rame size	u point (k)AA				
DEN ty of F	company	5.4 P	ower absorbed by exhauster at dut	y point (KVV)				
VFII proper	the co	5.5 R	ated power (kW)					
CO)	detrimental to the interest of the	5.6 D	uty cycle					
AND ocuments of be used	intere		ated voltage					
T A document not be	to the		o. of phase requency					
COPYRIGHT information on this digal Limited It must	mental	5.9 F	llowable voltage variation					
YR	detri	5 11 A	llowable frequency variation					
COP		5.11 A	llowable voltage & frequency varia	tion				
The			current					
			Rated speed (RPM)					
E	14:41	5.15 F	ull load efficiency					
रेटेटमका प्रत्यक्ष स	r E	5.16 F	ull load power factor					
#50 EH	ग्रानकार	5.17 N	Method of starting					
E 7	स म	5.18 N	Max. starting current					
F #	16		Class of insulation					
एवं ग क्रिक्स	जाय।		Starting torque					
स्वत्वाधिकार एवं गो । भारत हेवी एसेक्ट्रिकल	(F)		Max. torque					
बत्वाधिकार भारत हेवी ए	ह प्रयोग	5.22	Safe stall time . Under hot condition					
मुख	를 금		b. Under cold condition					
45	田田		Type of enclosure					
प्रलेख में	म भ	5 24	Enclosure protection					
इस प्रले	अप्रस्त	5.25	requency of starting					
		5.26	Temp. rise above 500C					
		5.27	By resistance method					
[1]	B		By thermometer method					
DAT	7	5.28	Type & no. of terminals brought ou	l ue ruppina				
E W	3	5.29	Type of connection during continuo	and is				
Ran SIGN	10	5.30	Type and size of cable for when gla	aliu is				
3,	A		provided in the terminal box. Guaranteed min. voltage read at n	on terminals				
	/A	5.31	Guaranteed IIIII. Voltage read at III					
	V	5.32	System of earthing	निर्माणकर्ता			J	11/0
NO.	16	REV. NO. 04		WORKED BY	Kunal Mishra	hu		1110
10)	588	10.0.01		जांचकर्ता		1	W/	11/01
सामग्री सूची संख्या NVENTORY N	MC)							

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SIG		Page	5	of 8		
मानग्री मूची मंज्या को SUPERSEDES अधिकतिम करता है INVENTORY	5 5 5 5 5	5.34 Motor 5.35 Type 5.36 Type 5.37 Type				
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	5.1 The m confo confo The b proce 5.3 The e owner The m	in. tests checks to be carried out on vapour exhauster, a are given below:- The material of Casing, Impeller, Base frame, Sleeve & tested as per relevant standard for the chemical compo mechanical properties.	ds. along wi earance s envisa O Ring esition ar	th by iged sha	BHEL I by
स्वत्वाधिकार एवं गोपनीय इस प्रतेष में दी सर्द भूचना भारत हेवी एनेक्प्रिकना की सम्पति है इसका प्रतक्ष एवं अप्रत्यक्ष रूप में किसी के तरह प्रयोग, वो कि कंप्रती के हित में हानिकारक हो न किया वार,		6.4.3	 TESTS DURING VARIOUS STAGE OF MANUFACTU Check for dimension and finish of the components. D.P.T on all welding as per ASME section VIII. Dynamic balancing of impeller as per ISO 1940 Gr	. 6.3. ured at		
SIGN of Chare		6.4.4	 Type & Routine tests on motor as per IEC:60034-1 Vendor to furnish the test certificates for the following 1) Motor Enclosure certificate as per IP 55 as per IEC 2) Explosion proof certificate for motor for Group II T4 3) Certificate for enclosure of Terminal box for explos Group II T4 IEC 60079. 4) Certificate for minimum clearance of 2mm between 	as per ion proo	IEC f as	per
मामग्री मूनी मंडया NVENTORY NO.	REV. NO	2.04	निर्माणकर्ता WORKED BY Kunal Mishra	, al		11/01/1

जांचकर्ता CHECKED BY

Manju Azad

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ATE		बीएच ईएल		TG6	0432	
बं हस्ताक्षर SIGN & DATE		BHIL	उत्पाद क्रय विनिर्देश		8 का7	
			PRODUCT PURCHASE SPECIFICATION	Page	7 of 8	}
COPYRIGHT AND CONFIDENTIAL अधिकार को SUPERSEDES अधिकार के INVENTORY	Electrical Limited It must not be used directly or indirectly in any way detrimental to the interest of the company	A namaffixed - Item - Maning - Year - SI. Now - Maing - BHE - BHE - BHE - BHE - BHE - BIdde offer. The teal along	technical parameters i.e. Flow rate, Discharge pressure, Speedum, operating temperature, Motor KW Rating. L specification no. L material code. L P.O. No. ERAL r shall furnish all the documents as per clause 7 of the specification deviation shall be clearly spelled out. The offer may not be chnical particulars and information called for in the specification with the offer. ES REFFERED STANDARD	ed, Flow ation alor conside	ng with red if al	
गोपनीय लगकी सम्पनि है इसका प्रत्यक्ष एवं	के हित में हानिकारक हो न किया	•	940, ISO 5801 0034-14, IEC 60034-9, IEC 60034-1, IEC 60034-5, IEC 60079 62			
रिनाक एवं हृत्याकर SIGN-क्ष्रेट्र DATE	Ja118					
सामग्री सूची संख्या INVENTORY NO.	7685d	REV. NO. 04	निर्माणकर्ता WORKED BY जांचकर्ता CHECKED BY Manju Azad	mal Marje	11/01/	18



MANUFACTURER'S NAME AND ADDRESS		STANDARD QUALITY PLAN				TO BE FILLED BY BHEL			TO BE FILLED	BY BHEL		
						1 .						
	VENDOR'S NAME	ITEM	VAP	OUR EXHAUS	STER QP N	io. Qa/be	E/QP/306					
					DATE	D & 19.03.2	025					
BHEL					REV	04						
		DRG. NO.	AS PEI	R PO								
		SPEC.	TG 60-	432								
		REV	AS PEI	R PO		Page 1	of 2					
SL.	COMPONENT &	CHARACTER	RISTICS	CLASS	TYPE OF CHECK	QUANTUM OF	REFERENCE	ACCEPTANCE	FORMAT C)F	AGENCY	REMARKS
NO.	OPERATIONS					CHECK	DOCUMENT	NORMS	RECORDS		M B N	
1	2	3	•	4	5	6	7	8	9	D	10	11

1.0	RAW MATERIAL												
1.1	CASING, IMPELLER, BLADES & BASE FRAME/ PLATE, SLEEVE, O-RING	CHEMICAL, MECHANICAL PROPERTIES & SIZE	MAJOR	TEST & MEASUREMENT	100%	ORDERING SPEC. / BHEL APPD. DRG. / DATA SHEET	ORDERING SPEC. / BHEL APPD. DRG. / DATA SHEET	MTC	√	Р	V	V	
1.2	NUTS & BOLTS	TRADE MARK & PRPERTY CLASS	MAJOR	VISUAL	100%	AS PER VENDOR'S PROCEDURE	AS PER VENDOR'S PROCEDURE	IR	√	Р	٧	-	
1.3	AC INDUCTION MOTOR (Please specify make, degree of protection and rating)	ROUTINE & TYPE TESTS CERTIFICATE INCLUDING DEGREE OF PROTECTION AND EXPLOSION PROOFNESS	MAJOR	REVIEW	100%	ORDERING SPEC. / BHEL APPD. DRG. / DATA SHEET	ORDERING SPEC. / BHEL APPD. DRG. / DATA SHEET	тс	V	Р	V	V	Also Include Enclosure Certificate as per Spec
2.0	INPROCESS INSPECTION					·			•	•			
2.1	ALL WELDS	QUALITY OF WELDS	MAJOR	DPT	100%	ORDERING SPEC. / BHEL APPD. DRG. / DATA SHEET	ORDERING SPEC. / BHEL APPD. DRG. / DATA SHEET	IR	V	Р	V	-	NOTE:1
2.2	IMPELLER	DIMENSIONS	MAJOR	MEASUREMENT	100%	ORDERING DWG	ORDERING DWG	IR	-	Р	-	-	
		DIMENSIONS AFTER MACHINING	MAJOR	MEASUREMENT	100%	ORDERING DWG	ORDERING DWG	IR	-	Р	-	-	
		DYNAMIC BALANCING	MAJOR	MEASUREMENT	100%	ORDERING SPEC. / BHEL APPD. DRG. / DATA SHEET	ORDERING SPEC. / BHEL APPD. DRG. / DATA SHEET	ТС	√	Р	V	V	
2.3	ASSEMBLY OF FAN	INTERNAL CLEARANCE BETWEEN IMPELLER & CASING	MAJOR	MEASUREMENT	100%	ORDERING SPEC. / BHEL APPD. DRG. / DATA SHEET	ORDERING SPEC. / BHEL APPD. DRG. / DATA SHEET	IR	√	Р	V	-	
3.0	FINAL INSPECTION ON THE	COMPLETE ASSEMBLY	•	•		·			•		•	•	•
3.1		OVERALL DIMENSIONS	MAJOR	MEASUREMENT	100%	ORDERING SPEC. / BHEL APPD. DRG. & DATA SHEET	ORDERING SPEC. / BHEL APPD. DRG. & DATA SHEET	TC	V	Р	W	V	

		LEGEND: RECORDS IDENTIFIED WITH '✓' SHALL BE ESSENTIALLY INCLUDED BY CONTRACTOR IN QA	FOR CUSTOMER USE	
MANUFACTURER/ SUBCONTRACTOR	Opphysion is NESSERVA OpenAccel Special parts are produced to the company	DOCUMENTATION. M: MANUFACTURER / SUBCONTRACTOR B: BHEL / NOM. INSPECTION AGENCY N: CUSTOMER INDICATE 'P' PERFORM 'W' WITNESS AND 'V' VERIFICATION		APPROVED BY
	र जिन्द्र सिंह ev al aspectación de papela la cub (ISBN 2003330 9103320 910330 910330 910330 910330 910300 910000 910000 910000 910000 9100000 910000 910000 910000 910000 910000 910000 910000 910000 91000000 910000 910000 910000 910000 910000 910000 910000 910000 91000	ALL 'W' INDICATED IN COLUMN 'N' SHALL BE 'CHP' OF CUSTOMER		

/IANUF	ACTURER'S NAME AND ADD	RESS			STANDARD QU	ALITY PLAN		TO BE FILLED BY BHEL				TO BE	FILLED	BY BHEL
	VENDOR'S NAME	ITEM	VAF	OUR EXHAU			QA/BE/QP/306							
						I	19.03.2025							
HEL					RE	V	04							
		DRG. NO.	AS PE	R PO										
		SPEC.	TG 60	0432										
		REV	AS PE	R PO			Page 2 of 2							
SL.	COMPONENT &	CHARACTERIS	STICS	CLASS	TYPE OF CHECK	QUANTU	M OF REFERENCE	ACCEPTANCE	FORMAT	OF		AGENC	Υ	REMARKS
NO.	OPERATIONS					CHEC	K DOCUMENT	NORMS	RECORD	S	М	В	N	
1	2	3		4	5	6	7	8	9	D		10		11
3.2		PERFORMANCE (IN	CLUDING	MAJOR	PERFORMANCE	100%	IS:4894/	IS:4894/ ORDERING	TC	√	Р	W	V	
		AIR DELIVERY, PRES					ORDERING SPEC.							
		POWER CONSUMP					BHEL APPD. DRG.	* *						
			,				& DATA SHEET							
3.4		FAN SPEED, SMOOT	ГН	MAJOR	VISUAL	100%	ORDERING SPEC.	/ ORDERING SPEC. /	IR	√	P	W	V	
		RUNNING, DIRECTION			1.00/.2		BHEL APPD. DRG.	·			1	''	`	
		ROTATION					& DATA SHEET	DATA SHEET						
3.5		NOISE LEVEL		MAJOR	MEASUREMEN'	T 100%	ORDERING SPEC.	/ ORDERING SPEC. /	IR	✓	Р	W	V	
							BHEL APPD. DRG.	BHEL APPD. DRG. &						
							& DATA SHEET	DATA SHEET						
3.6		VIBRATION		MAJOR	MEASUREMEN	T 100%	ORDERING SPEC.	/ ORDERING SPEC. /	IR	✓	Р	W	V	
							BHEL APPD. DRG.	BHEL APPD. DRG. &						
							& DATA SHEET	DATA SHEET						
3.7		APPEARANCE INCLU		MAJOR	VISUAL &	100%	ORDERING SPEC.	·	IR/TC		P	٧	٧	As per Customer/
		PAINT THICKNESS (DFT)		MEASUREMEN [*]	т	BHEL APPD. DRG.							BHEL Reg. (if any)
							& DATA SHEET	DATA SHEET						51.22 1.0q1 (ii aily)
3.8		COMPLIANCE OF TE	CHNICAL	MAJOR		100%	ORDERING SPEC.	•	coc		P	V	-	
		REQUIREMENTS					BHEL APPD. DRG.							
							& DATA SHEET	DATA SHEET		1				
3.9		COMPLETION OF		MAJOR	PHYSICAL	100%	ORDERING SPEC.		DOCUMEN	✓	P	V	-	
		DOCUMENTS					BHEL APPD. DRG.		TS					
							& DATA SHEET	DATA SHEET						
4.0	PACKING													
4.1		SOUNDNESS OF PA	CKING	MAJOR	PHYSICAL	100%	ORDERING SPEC.	/ ORDERING SPEC. /	INTERNAL		Р	-	-	
		AGAINST TRANSIT				20070	BHEL APPD. DRG.		RECORDS		1			
							& DATA SHEET	DATA SHEET						

Note 2: 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 3: One 'index' page containing the document descriptions, their page no's & QAP cl no. shall be attached upfront the inspection documents.

Note 4: For any spares item, apart from 'visual inspection' the 'interchangeability fitment certificate' or 'material TC' are to be submitted, with specific mentioning of the 'pert no/ item no of the approved GA/ x-sec drg.".

		LEGEND:	FOR CUSTOMER USE	
		RECORDS IDENTIFIED WITH '✓' SHALL BE ESSENTIALLY INCLUDED BY CONTRACTOR IN QA		
MANUFACTURER/ SUBCONTRACTOR	Digitally signed by RAJENDER SINGH DN: cn=RAJENDER SINGH, o=BHEL HEEP MARIDWAR, ou=BHEL HEEP DIRECTIONS OF THE SINGH, ou=BHEL HEEP DIRECTIONS OU=BHEL DIRECTIONS OU=BHEL DIRECTIONS OU=BHEL DIRECTIONS OU=BHEL HEEP DIRECTIONS OU=BHEL DIRECTIONS OU=BHELD OU=BHEL DIRECTIONS OU=BHELD OU=	DOCUMENTATION. M: MANUFACTURER / SUBCONTRACTOR B: BHEL / NOM. INSPECTION AGENCY N: CUSTOMER INDICATE 'P' PERFORM 'W' WITNESS AND 'V' VERIFICATION		APPROVED BY
	HARIDWAR, email=rajender.singh@bh	ALL 'W' INDICATED IN COLUMN 'N' SHALL BE ' CHP ' OF CUSTOMER		

	VENDOR LIST NO.	REV.	VALID
adanı	QA/VENDOR/ELEC/001	00	TILL RELEASE OF NEXT REVISION
Section: Electrical		<u> </u>	1

Approved Vendor List of Electrical Items for Projects ELECTRICAL VENDOR LIST

		LIST		
SI. No	Item Name	Vendor Name	Location	BHEL Remarks (Category A. BHEL Mfg. / B. Raw Material C. BOP Bought Outs
		Shanghai Electric Group Co., Ltd.	China	BHEL
		DOOSAN	KOREA	7
		SIEMENS	GERMANY	7
		L&T - MHPS TG COMPANY	HAZIRA	\dashv
1.	Generator	BHEL	HARIDWAR	-
		Toshiba	Japan/China	\dashv
		GE	WORLDWIDE	\dashv
				_
		Dongfang Electric Group Co., Ltd.	China	DITE
		GE	CHINA	BHEL
	GENERATOR'S EXCITATION SYSTEM	ALSTOM	GERMANY / POLAND / NOIDA	
2.	(STATIC)	EMERSON	NOIDA	
	(STATIC)	ABB	BANGALORE	
		NARI	CHINA	7
		TOSHIBA CO.	JAPAN	7
		Xian Xd High Voltage Apparatus Co. ,Ltd.	China	Not In Scope
		Henan Pinggao High Voltage Switchgear Co. ,Ltd	China	
3	400kV Disconnector	New Northeast Electric Group High Voltage Switchgear Co., Ltd	China	
		Shandong Taikai Disconnector Co. ,Ltd	China	
		Jiangsu He gtong power cable co ltd	China	Not In Scope
		Qingdao Hanhe Cable Co., Ltd	China	7
		Phelps Dodge Yantai Cable Co. Ltd	China	
4	MV Cable	Jiangsu Dongfeng Cable Co. Ltd.,	China	
		Anhui Huaneng Cable Group Co. Ltd	China	
		Shangdong Hanhe Cable Co. Ltd	China	
		Hainan Jinpan Electric Co. ,Ltd.	China	BHEL
5	LV Dry Transformer	China Electric Equipment Group Corporat	China	
,		Nanjing Dago Transformer Co.,Ltd	China	_
		Dago Group	China	Not In Scope
•	MV	Shandong Taikai SWGR	China	- Not in Scope
6	Switchgear			_
		XD Baoji E ectric Co., Ltd Hoppecke Power System (Shanghai) Co.,	China China	BOP Bought Outs
		Ltd.		4
7	Battery	ALCAD	China	_
′]	Saft	France	_
		HBL	China	
		Haze Battery Company Ltd	China	
		Perkins	China	Not In Scope
8	DG Set	Cummins	China	–
		Mitsubishi	China	┪
		ABB	Swiss	Not In Scope
_	Generator Circuit Breaker	Ge(Alstom)	France	- Tot III Scope
9	Generator Circuit Dreaker	MHI		\dashv
		Qingdao Pyramid Electric Engineering	Japan China	BOP Bought Outs
10	UPS			
-		AEG	China	_
		Emerson	China	
		Nanjing Nari-Relays Electric Co., Ltd.	China	Not In Scope
		ABB	China	7
11	Generator transformer Protection	SIEMENS	China	╡
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2a/9858/35/73/95bd569bc postalCode=110090, st= AC7253/91 AABC798020 CO77882166, cs=48MANSI- 405/307	Generator transformer, Station	GE Baoding Tianwei Baobian Electric Co.,	China China	Not In Scope

	Transformer and	Xian XD Transformer Co., Ltd.	China	
12	Unit transformer & Standby Transformer & Reactor	TBEA Shenyang Transformer Co., Ltd.	China	
		Pinggao Group	China	Not In Scope
13	GIS	ABB	China	_
		SIEYUAN LECTRIC CO., LTD Xian Xd	China China	Not In Scope
14	Current transformer	Norit HV Transformer Shandong Takal	China	Not in scope
	content dansformer	Shandong Takal	China	1
		Xian Xd	China	Not In Scope
15	Capacitor Voltage Transformer	Norit HV Transformer Shandong Takal	China	
		Shandong Takal	China	N. d. C.
16	Lightning Arrestor	Piaggao G oup Xian Xd	China China	Not In Scope
	Arrestor	Shandong Alfa Dachi Electric Co., Ltd	China	
		C&S	HARIDWAR/NOIDA	
		POWER GEAR	BANGALORE	Not In Scope
17	Bus Duct	BUSBAR SYSTEM PVT LTD BANGALORE	BANGALORE	
		JIANGSU DAQO ENCLOSURE BUSBAR CO., LTD	CHINA	
		BHEL	JHANSI	7
		BEIJING POWER EQUIPMENT	CHINA	
		DACHIALFA	CHINA	
		Schneider	Germany	4
		C&S	India	4
18	Control Panel for Generator Aux	EIC Massibus	India India	-
16	Control Fanerior Generator Aux	Blumenbecker	Poland	-
		ABB	India	1
		GE	India	<u> </u>
		Etacom	Belgium	NOT IN SCOPE
19	Excitation AC-DC Bus duct	REEP	India	
		C&S	NOIDA	
		Alstom Power Systems GmbH	Germany	BHEL
		Alstom Power Sp. z o.o GEPIL (former ALSTOM PAC)	Poland India	4
20	Excitation System	ABB	India	┥
		GE	Poland	1
		GE	USA	†
		Alstom	Shahabad	BHEL
		Alstom Power Sp Z O o	Poland	
		Alstom Beizong Power (Beijing)	China	_
21	Stator Frame	DHI	China	4
	-	Alstom Bharat Forge Power Ltd	India	4
		ISGEC KCP	India India	-
		Juneng	China	-
		Alstom Power Sp Z O o	Poland	BHEL
		Alstom Beizong Power (Beijing)	China	_
22	Stator End Shield	ISGEC	India	
		Alstom Bharat Forge Power Ltd	India	_
		Energy Machines Pvt td	India	Nombiccor
		Pragati	India	NOT IN SCOPE
		Pragati KAPPA	India India	-
		JSL Industries	India	┥
23	Bushing CT / Generator CT	Mehru Electricals	India	1
		Mahendra Electricals	India	_
		Shenyang Instrument Transformer	China	
		Dalian Instrument transformer	India	
	Tamel 18 11	Trench (Emly)	France	# Refer Note
24	Terminal Bushing	HSP Passoni & Villa	Germany	- " 13331 1100
		BHEL	JHANSI	NOT APPLICABL
		VIJAY	HYDERABAD	
		Kirloskar Electric C	PUNE	1
		RITZ INSTRUMENT XMER GMBH	GERMANY]
		RAYCHEMRPG	PUNE	_
25	Excitation Transformer	TOSHIBA	INDIA	_
		TBEA	CHINA	4
		ABB	SWITZERLAN D/	
		SIEMENS	FINLAND/ VADODARA GERMANY / India	4
YHMANSHU SINGHAL		PROLEC GE	CHENNAI	┪
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BIEL SIJOPAL				BHARATBIJALI	MUMBAI	1
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HIMANSHU SINGHAL SIN					AHMEDNAGAR	1
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	i	I	DAQO GROUP	TCHINIA	1
				CHINA	-
			SHndong Taikai	CHINA	
			Xd Baoji	CHINA	-
		LT SWITCHGEAR PANEL	AKSHAR ELECTRIC PANEL	BARODA	
	30	(MCC/PMCC/PC C)			-
			MILSTONE	GURGAON/SAHIBABA	
				D/RUDRAPUR	-
			UNILEC ENGINEERS	GURGAON	
]
			ELECTO CONTROL SYSTEM	NOIDA	
			TRISQUARE SWITCHGEARS PVT LTD	SONIPAT	
					_
			PYROTECH ELECTRONICS PVT LTD	UDAIPUR	
			SICHUAN ELECTRIC	CHINA	
			SICHUAN CHUANKAI SWITCHGEAR	CHINA	
			RYB SWITCHGEAR	DELHI	BOI
			MANISH ENGINEERING	MUMBAI	
			UNILEC ENGINEERS	BHIWADI]
			CHANDRA ELECTRICAL & ELECTRONICS	AURANGABAD	1
			JASPER ELECTRICALS	NOIDA	1
			AKSHAR ELECTRIC	BARODA	1
			ZENTIH	THANE	1 l
			MAKTEL	VADODARA	1
			INDUSTRIAL CONTROL	AHMEDABAD	1 l
			POSITRONICS	-	1 I
			ELCHEMECH	AHMEDABAD	1 I
			OM ELECTRICALS	AHMEDABAD	1
			ELECTO CONTROL SYSTEM	NOIDA	1
		LT PANEL (ACDB/DCDB/M LDB/ELDB	RISHA CONTROL	NEW DELHI	1
	31	/LOCAL STARTER PANEL)	STERLING GENERATORS	SILVASA	1
		/LOCAL STARTER PAINEL)	PRISTINE SWITCHGEARS (SCHNEIDER)	SIEVASA	1
			TRISTING SWITCHGEARS (SCHINEIDER)		
			NARKHEDE UDYOG (ABB)		-
			BHARAT ENGINEERS	VADODARA	-
			ATOZ	NOIDA	-
			BCH	FARIDABAD	-
			SIEMENS		-
				MUMBAI	-
			LUNAR ENGINEERING PVT LTD	SACHIN,SURAT	
			VIDYUT CONTROL (I) PVT LTD	GHAZIABAD	
			PYROTECH ELECTRONICS PVT LTD	UDAIPUR	
			PYROTECH ELECTRONICS PVT LTD	UDAIPUR	_
			C&S	HARIDWAR	
			SHANGHAI WIN-POWER CORPORATION	CHINA	
			SIEMENS	NASHIK	BOI
			ROCKWELL	SHAHIBABAD, UP	
			GE	BANGALORE	_
1			ABB	BANGALORE	<u> </u>
			YOKOGAWA	JAPAN]
			L&T	MUMBAI	<u> </u>
	32	VARIABLE FREQUENCY DRIVE (VFD)	ALLEN BRADLEY		<u> </u>
	32	VARIABLET REGOLITET BRIVE (VI B)	AMTECH ELECTRONICS INDIA LTD	GANDHINAGAR]
			HITACHI HI-REL POWER ELECTRONICS PVT	SANAND,AHMEDABA D	
			LTD.		
					j l
			ABB	WORLD WIDE]
			GE	WORLD WIDE	
			ABB	BANGALORE	NOT IN SCOPE
			GE	BANGALORE	j l
			SIEMENS	MUMBAI]
			L&T	MUMBAI]
			SCHNEIDER	DELHI]
			ROCKWELL AUTOMATION	SAHIBABAD]
	33	PLC PANELS	AMTECH ELECTRONICS INDIA LTD	GANDHINAGAR]
			Shanghai Institute of Process Automation	CHINA	1
			Instrumentation		
			1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
			Beijing Far East Instrument Co., Ltd.	CHINA	†
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			Xi'an Xingyi Control System Co.,Ltd.	CHINA	
1118 4 8 5 2 5 1 1 1 1	-	•	JAYASHREE ELECTRON PVT LTD	PUNE	BOI
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SINGHAL SINGHAL STREET	CSD77408D7F883E6, cs-HIMANS 32 13-28-08 ±05°30°	SOFT STARTER PANEL	GUODIAN NANZI	CHINA	<u> </u>
	Ī	1	SHANGHAI WIN-POWER CORPORATION	CHINA	
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		T	CIEMENIC	I NALIDAD AL	BOI
			SIEMENS GE	MUMBAI	BOI
			HONEY WELL	BANGALORE PUNE	_
	3-	THYRISTOR PANEL	L&T	MUMBAI	_
	35	I HTRISTOR PANEL	EUROTHERM	USA	-
			DEC	CHINA	_
			FEIDA	CHINA	-
			POYCAB WIRES	DAMAN	Not in Scope
			KEI	BHIWADI	
			RAVIN CABLE	PUNE	
			UNIVERSAL CABLE	SATNA	
			STERLITE TECHNOLOGIES LTD.	HARIDWAR	
			GUPTA POWER		
			CCI	NASHIK	Not in Scope
			TORRENT CABLE	NADIAD	•
			UNIFLEX CABLE	VALSAD	
			HAVELLS CABLE	ALWAR	
			NICCO CABLE	KOLKATA	
			FINOLEX	MUMBAI	
	36	HT CABLES	CMI ENERGY INDIA LTD	BADDI	
			KEC INTERNATIONAL (RPG)	VADODARA	
			PARAMOUNT COMMUNICATION LTD	ALWAR	
				/ 	
			GEMSCAB INDUSTRIES LTD	BHIWADI, RAJASTHAN	7
			PHELPS DODGE YANTAI CABLE		7
			COMPANYLTD	CHINA	
			ANHUI HUANENG CABLE GROUP CO.		7
			LTD	CHINA	
			JIANGSU HENGTONG POWER CABLE		⊣
			CO. LTD	CHINA	
			QINGDAO HANHE CABLE CO. LTD	CHINA	\dashv
			DELTON	HYDERABAD	BOI
			SUYOG ELECTRICALS	VADODARA	
			BANSALI CABLES	ALWAR	_
			CMI ENERGY INDIA LTD	BADDI	-
			KECINTERNATIONAL (RPG)	VADODARA/SILVASSA	$\overline{}$
			TC COMMUNICATION	GHAZIABAD	-
			TO COMMONICATION	GHAZIABAD	
	37	LT POWER CABLE	SPECIAL CABLES PVT LTD	RUDRAPUR	_
			NAGANWALA IMPEX PVT LTD	ALWAR, RAJASTHAN	
			PARAMOUNT COMMUNICATION LTD	ALWAR, RAJASTHAN	_
			PARAMOUNT COMMUNICATION ETD	ALWAR, RAJASTHAN	
			ATLAS CABLE AND ACCESSORIES	GANDHIDHAM	-
			GEMSCAB INDUSTRIES LTD	BHIWADI, RAJASTHAN	_
			Far East Cable Co., Ltd.	CHINA	-
			JIANGSU JIANGYANG CABLES	CHINA	-
			POYCAB WIRES	DAMAN	
			SUYOG ELECTRICALS	VADODARA	
			CORDS CABLE	BHIWADI	
			THERMO CABLE	HYDERABAD	
			UNIVERSAL CABLE	SATNA	
			KEI	BHIWADI	
			BANSALI CABLE	BHIWADI	+
			CABLE COORPORATION OF INDIA	NASHIK	+
			DELTON	FARIDABAD	+
			HAVELLS CABLE	BHIWADI	+
			CMI ENERGY INDIA LTD	BADDI	+
			LAPP INDIA	BANGALORE	+
			KEC INTERNATIONAL (RPG)	VADODARA/SILVASSA	+
			RECINTERNATIONAL (REG)	VADODAKA/SILVASSA	
					BOUGHT OUT ITEM
	38	CONTROL & INSTRUMENTATION			BOOGITI OOT ITEM
	30	CABLE	TC COMMUNICATION	GHAZIABAD	
			Te commonte tribit	GI II (ZI) (B) (B	
			SPECIAL CABLES PVT LTD	RUDRAPUR	7
			PARAMOUNT COMMUNICATION LTD	ALWAR	
			ATLAS CABLE AND ACCESSORIES	GANDHIDHAM	
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HIMANSHU CIGNAL SIGNAL CONTROLL STATES AND ASSESSMENT OF THE STATES AND AS	IN DE HAMANSHU SINGHAL HARIAT HEAVY ELECTRICALS LIMITES ECTOR MARKETING (THERMAL AND O TOTOGRANDIZATRISESS/73/TSIGSARDO S783/S418, postal/Code—110049, st—	E. C.	GEMSCAB INDUSTRIES LTD	BHIWADI, RAJASTHAN	7
SINGHAL SINGHAL	3C907740807F88366, cn-H8MANSI- 0213-28-08-05/307	AL PRINCIPAL	JIANGSU JIANGYANG CABLES	CHINA	7
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		BIRLA ERICSSON	REWA	1
		TERACOM GOA	USHA	1
20	FIBER OPTIC CABLE	MARTIN (UM CABLES LTD.)	SILVASSA	1
39	FIBER OPTIC CABLE	PARAMOUNT COMMUNICATIONS LTD	ALWAR, RAJASTHAN	
		FINOLEX CABLE	GOA / PUNE	
		Qingdao Hanhe Cable Co.,Ltd.		_
		Jiangsu Jiangyang Cable Co.,Ltd.		no.
		POYCAB WIRES KEI		BOI
		THERMO CABLE	HYDERABAD	-
		SIECHEM	PONDICHERRY	-
		UNIVERSAL CABLE	FONDICHERRY	-
		LAPP		-
	.==	PARAMOUNT COMMUNICATION LTD	ALWAR, RAJASTHAN	-
40	LT PVC Cable	UNIFLEX CABLES (APAR)		-
		SICHUAN CABLES	CHINA	1
		WUXI CABLES	CHINA	†
		Far East Cable Co., Ltd.	CHINA	┪
		JIANGSU JIANGYANG CABLES	CHINA	┪
			CHINA	-
		Tianjin Daily Prosperity Science &	CHINA	
<u> </u>		Technology POYCAB WIRES	DAMAN	BOI
			DAMAN CIL VASSA (BLIDWAD)	- BOI
		KEI	SILVASSA/BHIWADI	4
		RPG	SILVASSA	4
		TORRENT CABLE	NADIAD	4
		HAVELLS CABLE	BHIWADI	4
		UNIVERSAL CABLE	SATNA	4
		SUYOG	KALOL	4
		FINOLEX	PUNE	_
41	WIRES	LAPP	BANGLORE	_
		GENEREAL CABLE	BADDI	
		ROLLIFLEX CABLES PVT. LTD.	DAMAN	
		SICHUAN CABLES	CHINA	
		WUXI CABLES	CHINA	\exists
		Far East Cable Co., Ltd.	CHINA	
		JIANGSU JIANGYANG CABLES	CHINA	1
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		Technology	Cimvi	
		SCHNEIDER	VADODARA	NOT IN SCOPE
		CGL		NOT IN SCOPE
		L&T		
	BUS BAR TRUNKING SYSTEM (BBT) /			
42	SANDWICHED TYPE BUS DUCT	SIEMENS		
	SANDWICHED I'II'E BOS BOCT	GODREJ		
		C&S		
		LEGRAND		┪
		MJ ENGINEERS	BHIWADI	NOT IN SCOPE
		GLOBAL SMELTERS LTD.STR DIVISION	UNNAO, UP	_ NOT IN SCOTE
		ARCHON ENGINEERING	KALOL,GANDHINAGA R	4
	GI LATTICE STEEL & PIPE	GOODLUCK STEEL & TUBE LTD.	BULANDSHAHR, UP	-
43	STRUCTURE	AGARWAL FOUNDARIES	MEDAK, AP	-
			GHAZIABAD	-
		R.S. INFRA PROJECTS LTD		4
		ANAND UDHYOG THANE	INDIA	4
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	CENEDATORIS AID SOCIETION	GEA	GERMANY, INDIA,	NOT APPLICABLE
ı	GENERATOR'S AIR COOLER FOR	601.00.000	POLAND	4
44	BRUSH GEAR (IF APPLICABLE)	COLD & HOT	SWITZERLAND	4
44	BROSH GLAR (II ALL LICABLE)		INDIA	
44	DROSH GEAR (II ALL EICABEE)	KELVION (GEA ECOFLEX)	CEDALLING	BHEL
	GENERATOR'S BEARING	GTE GLEITLAGERTECHNIK-ESSEN	GERMANY	7
44		GTE GLEITLAGERTECHNIK-ESSEN GERMANY RENK	GERMANY	NOT DISCOURT
		GTE GLEITLAGERTECHNIK-ESSEN GERMANY RENK TOSHIBA CORPORATION	GERMANY JAPAN	NOT IN SCOPE
		GTE GLEITLAGERTECHNIK-ESSEN GERMANY RENK TOSHIBA CORPORATION ABB	GERMANY JAPAN JAPAN	NOT IN SCOPE
		GTE GLEITLAGERTECHNIK-ESSEN GERMANY RENK TOSHIBA CORPORATION ABB TRENCH	GERMANY JAPAN	NOT IN SCOPE
		GTE GLEITLAGERTECHNIK-ESSEN GERMANY RENK TOSHIBA CORPORATION ABB TRENCH SIEMENS LTD HSP	GERMANY JAPAN JAPAN FRANCE	NOT IN SCOPE
		GTE GLEITLAGERTECHNIK-ESSEN GERMANY RENK TOSHIBA CORPORATION ABB TRENCH SIEMENS LTD HSP PRAYOG	GERMANY JAPAN JAPAN FRANCE	NOT IN SCOPE
	GENERATOR'S BEARING	GTE GLEITLAGERTECHNIK-ESSEN GERMANY RENK TOSHIBA CORPORATION ABB TRENCH SIEMENS LTD HSP PRAYOG PRAGATI	GERMANY JAPAN JAPAN FRANCE INDIA INDIA	NOT IN SCOPE
45		GTE GLEITLAGERTECHNIK-ESSEN GERMANY RENK TOSHIBA CORPORATION ABB TRENCH SIEMENS LTD HSP PRAYOG PRAGATI KAPPA	GERMANY JAPAN JAPAN FRANCE INDIA INDIA INDIA	NOT IN SCOPE
	GENERATOR'S BEARING	GTE GLEITLAGERTECHNIK-ESSEN GERMANY RENK TOSHIBA CORPORATION ABB TRENCH SIEMENS LTD HSP PRAYOG PRAGATI	GERMANY JAPAN JAPAN FRANCE INDIA INDIA	NOT IN SCOPE
45	GENERATOR'S BEARING GENERATOR'S BUSHING CURRENT	GTE GLEITLAGERTECHNIK-ESSEN GERMANY RENK TOSHIBA CORPORATION ABB TRENCH SIEMENS LTD HSP PRAYOG PRAGATI KAPPA	GERMANY JAPAN JAPAN FRANCE INDIA INDIA INDIA	NOT IN SCOPE
45	GENERATOR'S BEARING GENERATOR'S BUSHING CURRENT	GTE GLEITLAGERTECHNIK-ESSEN GERMANY RENK TOSHIBA CORPORATION ABB TRENCH SIEMENS LTD HSP PRAYOG PRAGATI KAPPA MAHENDRA ELECTRICALS	GERMANY JAPAN JAPAN FRANCE INDIA INDIA INDIA INDIA INDIA	NOT IN SCOPE
45	GENERATOR'S BEARING GENERATOR'S BUSHING CURRENT	GTE GLEITLAGERTECHNIK-ESSEN GERMANY RENK TOSHIBA CORPORATION ABB TRENCH SIEMENS LTD HSP PRAYOG PRAGATI KAPPA MAHENDRA ELECTRICALS	GERMANY JAPAN JAPAN FRANCE INDIA INDIA INDIA INDIA INDIA	NOT IN SCOPE
45	GENERATOR'S BEARING GENERATOR'S BUSHING CURRENT	GTE GLEITLAGERTECHNIK-ESSEN GERMANY RENK TOSHIBA CORPORATION ABB TRENCH SIEMENS LTD HSP PRAYOG PRAGATI KAPPA MAHENDRA ELECTRICALS DALIAN INSTRUMENT TRANSFORMER	GERMANY JAPAN JAPAN FRANCE INDIA INDIA INDIA INDIA INDIA INDIA	NOT IN SCOPE
45	GENERATOR'S BEARING GENERATOR'S BUSHING CURRENT TRANSFORMER	GTE GLEITLAGERTECHNIK-ESSEN GERMANY RENK TOSHIBA CORPORATION ABB TRENCH SIEMENS LTD HSP PRAYOG PRAGATI KAPPA MAHENDRA ELECTRICALS DALIAN INSTRUMENT TRANSFORMER JSL INDUSTRIES	GERMANY JAPAN JAPAN FRANCE INDIA INDIA INDIA INDIA INDIA INDIA INDIA INDIA	NOT IN SCOPE
45	GENERATOR'S BEARING GENERATOR'S BUSHING CURRENT TRANSFORMER	GTE GLEITLAGERTECHNIK-ESSEN GERMANY RENK TOSHIBA CORPORATION ABB TRENCH SIEMENS LTD HSP PRAYOG PRAGATI KAPPA MAHENDRA ELECTRICALS DALIAN INSTRUMENT TRANSFORMER JSL INDUSTRIES DALIAN NORTH TRANSFORMER DALIAN FIRST TRANSFORMER	GERMANY JAPAN JAPAN FRANCE INDIA INDIA INDIA INDIA INDIA INDIA INDIA INDIA INDIA CHINA CHINA	NOT IN SCOPE
45	GENERATOR'S BEARING GENERATOR'S BUSHING CURRENT TRANSFORMER	GTE GLEITLAGERTECHNIK-ESSEN GERMANY RENK TOSHIBA CORPORATION ABB TRENCH SIEMENS LTD HSP PRAYOG PRAGATI KAPPA MAHENDRA ELECTRICALS DALIAN INSTRUMENT TRANSFORMER JSL INDUSTRIES DALIAN NORTH TRANSFORMER	GERMANY JAPAN JAPAN FRANCE INDIA CHINA	NOT IN SCOPE

		POSITRONICS	INDIA	
GEN	GENERATOR'S CONTROL CUBICLE FOR	PYROTECH	INDIA	
7'	H ₂ O & H ₂ MACHINE	MASSIBUS	INDIA	
		ABB	INDIA	
		GE	INDIA	
		GEA	GERMANY	BHEL
48 GENE	ERATOR'S HYDROGEN COOLER	LAXMI	INDIA	
45 5=		DENGENG UNIFIN	CHINA	
		FITWELL	INDIA	
49 G	ENERATOR'S HYDROGEN GAS	ROCKFIN	PUNE/POLAND	<u></u>
	COOLING SYSTEM	ROTAN JINDAL ELECTRONICS	GERMANY INDIA	BOI /
		MELLCON ENGG	INDIA	BO17
	GENERATOR'S HYDROGEN GAS DRYER	YANGZHOU ELECTRIC POWER	CHINA	
GE GE		HAILIN NORTH ELECTRICAL POWER	CHINA	# Refer Note
50		SUZHOU TAILIDENG PURIFICATION	CHINA	# Refer Note
		YANGZHOU YIHUA SCIENCE TECHNIC	CHINA	
		CO., LTD		
		CHINA SHIPBUILDING INDUSTRY	CHINA	BOI /
		CORPORATION,NO.717 INSTITUTE		
		SUZHOU JINGLI HYDROGEN MAKING	CHINA	
GE	NERATOR'S HYDROGEN GAS	EQUIPMENT CO. LTD		# Refer Note
51	GENERATION PLANT			
		TIANJIN MAINLAND HYDROGEN MAKING	CHINA	
		EQUIPMENT CO. LTD		
		KOKUSAI KEISO CO.	JAPAN	BOI /
52	NERATOR'S HYDROGEN GAS	SANYO CONTROLS CO.	JAPAN	# D 0 37
J- I	PURITY INDICATOR PANEL	IYO DENKI	JAPAN	# Refer Note
	GENERATOR'S MAIN/	GEA ECOFLEX (KELVION)	GERMANY, INDIA	BOI /
53	EMERGENCY SEAL OIL PUMP	ALPHA LEVEL	EUROPE, SWEDEN	
55	COOLER	TRANTER	INDIA	# Refer Note
	COOLER	KOSAKA LABORATORY LTD IMO PUMP	JAPAN	BOI /
		I COSAKA LABOKATOKT LTD IIVIO FOIVIF	JAFAN	
CENI	EDATORIS MAINI/EMERCENCY	ALL WEILER	GERMANY	# Refer Note
54 GENI	ERATOR'S MAIN/ EMERGENCY SEAL OIL PUMP	TUSHACO	INDIA	# Refer Note
	SEAL OIL FOMP	UT PUMP	INDIA	
	CENERATORIC	IMO	Sweden	BOI/ // D. C. N.
55	GENERATOR'S	ROCKFIN	POLAND	— # Refer No
	MAIN/EMERGENCY SEAL	DEA	CHINA	BOI /
		AKER PROCESS SYSTEMS PTY. LTD.	AUSTRALIA/CHINA	BOI
	GENERATOR'S REFRIGERATION HYDROGEN TYPE DRIER	HEBELER	USA	# Refer Note
56 GE		HOWARD MRTEN	CANADA	
		MITTEN	USA	
		ROCKFIN	PUNE/POLAND	
		ROTAN	GERMANY	
		ENERGIETECHNIK ESSEN	GERMANY	BHEL
		(VSG)		
57 GEN	IERATOR'S ROTOR RETAINING	SAARSCHMIEDE	GERMANY	
3/	RING	AUBERT & DUVALL	FRANCE	
		SIEMENS AG ERFURT	GERMANY	
		JAPAN STEEL WORKS LTD	JAPAN	
		JSW (JAPAN STEEL WORKS)	JAPAN	
		JCFC	JAPAN	
		SAARSCHMIEDE	GERMANY	# Refer Note
	GENERATOR'S ROTOR SHAFT FORGINGS	S.D.F.TERNI	ITALY	" Refer Note
G		SCHMIEDE WEKE GRODITZ	GERMANY	
58		BUDERUS EDELSTAHI	GERMANY/AUSTRIA	
	. Ording5	CRUESOT FORGE	FRANCE	
1		KOBE STEEL	JAPAN	
		·	CHINA	
		CHINA NATIONAL ERZHONG GROUP CO.		
		CHINA FIRST HEAVY INDUSTRIES	CHINA	
		CHINA FIRST HEAVY INDUSTRIES ROCKFIN	INDIA/POLAND	BHEL
		CHINA FIRST HEAVY INDUSTRIES ROCKFIN ROTAN	INDIA/POLAND GERMANY	BHEL
		CHINA FIRST HEAVY INDUSTRIES ROCKFIN ROTAN LINCOLIN	INDIA/POLAND GERMANY BANGALORE	BHEL
		CHINA FIRST HEAVY INDUSTRIES ROCKFIN ROTAN LINCOLIN ENPRO	INDIA/POLAND GERMANY BANGALORE PUNE	BHEL
GEN	NERATOR'S STATOR COOLING	CHINA FIRST HEAVY INDUSTRIES ROCKFIN ROTAN LINCOLIN ENPRO CENLUB FARIDABAD HYDAK	INDIA/POLAND GERMANY BANGALORE	BHEL
59 GEN	NERATOR'S STATOR COOLING WATER SYSTEM	CHINA FIRST HEAVY INDUSTRIES ROCKFIN ROTAN LINCOLIN ENPRO	INDIA/POLAND GERMANY BANGALORE PUNE	BHEL
59 GEN		CHINA FIRST HEAVY INDUSTRIES ROCKFIN ROTAN LINCOLIN ENPRO CENLUB FARIDABAD HYDAK	INDIA/POLAND GERMANY BANGALORE PUNE INDIA	BHEL
59 GEN		CHINA FIRST HEAVY INDUSTRIES ROCKFIN ROTAN LINCOLIN ENPRO CENLUB FARIDABAD HYDAK	INDIA/POLAND GERMANY BANGALORE PUNE INDIA	BHEL
59 GEN		CHINA FIRST HEAVY INDUSTRIES ROCKFIN ROTAN LINCOLIN ENPRO CENLUB FARIDABAD HYDAK COIMBATORE TOSHIBA CORPORATION	INDIA/POLAND GERMANY BANGALORE PUNE INDIA JAPAN	BHEL
59 GEN		CHINA FIRST HEAVY INDUSTRIES ROCKFIN ROTAN LINCOLIN ENPRO CENLUB FARIDABAD HYDAK COIMBATORE TOSHIBA CORPORATION TJPS	INDIA/POLAND GERMANY BANGALORE PUNE INDIA JAPAN INDIA (CHENNAI)	BHEL
59 GEN		CHINA FIRST HEAVY INDUSTRIES ROCKFIN ROTAN LINCOLIN ENPRO CENLUB FARIDABAD HYDAK COIMBATORE TOSHIBA CORPORATION TJPS JIMC	INDIA/POLAND GERMANY BANGALORE PUNE INDIA JAPAN INDIA (CHENNAI) KOREA	BHEL
59 GEN		CHINA FIRST HEAVY INDUSTRIES ROCKFIN ROTAN LINCOLIN ENPRO CENLUB FARIDABAD HYDAK COIMBATORE TOSHIBA CORPORATION TJPS JIMC CHORYO HIGH TECH	INDIA/POLAND GERMANY BANGALORE PUNE INDIA JAPAN INDIA (CHENNAI) KOREA JAPAN	
59		CHINA FIRST HEAVY INDUSTRIES ROCKFIN ROTAN LINCOLIN ENPRO CENLUB FARIDABAD HYDAK COIMBATORE TOSHIBA CORPORATION TJPS JIMC CHORYO HIGH TECH ANDRITZ KFT	INDIA/POLAND GERMANY BANGALORE PUNE INDIA JAPAN INDIA (CHENNAI) KOREA JAPAN HUNGARY	
59		CHINA FIRST HEAVY INDUSTRIES ROCKFIN ROTAN LINCOLIN ENPRO CENLUB FARIDABAD HYDAK COIMBATORE TOSHIBA CORPORATION TJPS JIMC CHORYO HIGH TECH ANDRITZ KFT TURBOCARE	INDIA/POLAND GERMANY BANGALORE PUNE INDIA JAPAN INDIA (CHENNAI) KOREA JAPAN HUNGARY POLAND	
59		CHINA FIRST HEAVY INDUSTRIES ROCKFIN ROTAN LINCOLIN ENPRO CENLUB FARIDABAD HYDAK COIMBATORE TOSHIBA CORPORATION TJPS JIMC CHORYO HIGH TECH ANDRITZ KFT TURBOCARE TIGEP	INDIA/POLAND GERMANY BANGALORE PUNE INDIA JAPAN INDIA (CHENNAI) KOREA JAPAN HUNGARY POLAND HUNGARY	
59		CHINA FIRST HEAVY INDUSTRIES ROCKFIN ROTAN LINCOLIN ENPRO CENLUB FARIDABAD HYDAK COIMBATORE TOSHIBA CORPORATION TJPS JIMC CHORYO HIGH TECH ANDRITZ KFT TURBOCARE TIGEP ALSTOM	INDIA/POLAND GERMANY BANGALORE PUNE INDIA JAPAN INDIA (CHENNAI) KOREA JAPAN HUNGARY POLAND HUNGARY INDIA	

		DHI	CHINA	
		ALSTOM BHARAT FORGE POWER LTD	INDIA	
		ISGEC	INDIA	
		JUNENG	CHINA	
		DFEM	CHINA	
		ALSTOM POWER SP Z O O	POLAND	
		ALSTOM BEIZONG POWER (BEIJING)	CHINA	
61	GENERATOR'S STATOR FRAME END	ALSTOM BHARAT FORGE POWER LTD	INDIA	BHEL
01	SHIELD			
		ENERGY MACHINES PVT LTD	INDIA	
		DFEM	CHINA	
		TRENCH (EMLY)	FRANCE	BHEL
62		HSP	GERMANY	
	GENERATOR'S TERMINAL BUSHING	SANZHOU NANE ZHONG (SUZHOU JIU &		# Refer Note
	GENERATOR'S TERMINAL BOSHING	ZHENG ELECTRIC)	CHINA	# Refer Note
		PASSONI & VILLA	ITALY	

For these items, refer "Final Resolution on categorization of materials wrt. Annexure-17 Dated15-9-23"

General Note: BHEL's unit wise vendor list signed by MEL QA may also be referred for the above list of items, as applicable